**SATISH C. SHARMA**

Professor in Mechanical Engineering

Indian Railway Chair Professor

Coordinator, Centre for Railway Research

Mechanical & Industrial Engineering Department   
Indian Institute of Technology, Roorkee.  
Tel : 01332 – 285603(O) / 286609 (Tribology Lab)

(R ) 01332 –285289 FAX : 01332 – 285665  
Mobile: +91-9897394009,  
E-mail-[sshmefme@iitr.ac.in](mailto:sshmefme@iitr.ac.in)

**Educational Qualifications:**

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| --- | --- | --- | --- |
| **Degree** | **Branch/Specialization** | **Year** | **Institute/University** |
| B.E. | Mechanical Engineering | 1980 | University of Roorkee |
| M.E. (Hons.) | Mechanical Engg. (Machine Design) | 1982 | University of Roorkee |
| Ph.D. | Tribology | 1990 | University of Roorkee |
| Visiting Fellow | Mechanical Engg.  (Leverhulme Visiting Fellow) | 1994-95 | University of Surrey, Guildford, (U.K.) |

**Employment Details:**

|  |  |  |
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| **Designation** | **Duration** | **Institute/Organization** |
| Professor (HAG Scale) | 01-01-2013 to date | I.I.T. Roorkee |
| Chair Professor (Railway Vehicle Dynamics) | 19-07-2018 to date | I.I.T. Roorkee |
| Chair Professor (Railway Vehicle Dynamics) | 05/09/2012 to 04/09/2015 | I.I.T. Roorkee |
| Professor | 22/10/2003 to 31/12/2012 | I.I.T. Roorkee |
| Associate Professor | 25/06/2001 to 21/10/2003 | I.I.T. Roorkee |
| Assistant Professor | 09/04/1996 to 24/06/2001 24/06/2001 | University of Roorkee |
| Lecturer | 18/08/1984 to 08/04/1996 | University of Roorkee |
| Teaching Assistant | 1982 to 1984 | University of Roorkee |

**Administrative Experience:**

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| **Administrative Duties** | **Duration** | **Institute/Organization** |
| Member, Board of Governors | 01/01/2018 to 31/12/2019 | IIT Roorkee |
| Member, Finance Committee | 01/01/2018 to 31/12/2020 | IIT Roorkee |
| Chief Vigilance Officer | 23/10/2015 to date | IIT Roorkee |
| Coordinator, Centre for Railway Engineering/ Centre for Railway Research | 01-05-2014-To date | IIT Roorkee |
| Dean of Alumni Affairs, | 01-01- 2013- 08-05- 2014 | IIT Roorkee |
| Member, Deptt. Professorial Committee, MIED | Oct. 2003 – To date | IIT Roorkee |
| Member , Institute Building Works Committee | 01-01-2011–31-12-2012 | IIT Roorkee |
| Vice President-Adarsh Bal Niketan Sr. Sec. School | 2009-12 | IIT Roorkee |
| Member, Deptt. Professorial Committee, Institute Instrumentation Centre, | 11-02-2011 – 10-02-2012 | IIT Roorkee |
| Head of the Department, Mechanical & Industrial Engg. | 01-01- 2010 –31-12- 2012 | IIT Roorkee |
| Associate Dean of Faculty Affairs | 01-01- 2007–31-12-2009 | IIT Roorkee |
| Chairman Department Academic Studies Committee (DASC) | 2008 – 2010 | IIT Roorkee |
| Member, Deptt. Professorial Committee, Deptt. of Architecture & Planning | 22-09-2006– 21-09-2008 | IIT Roorkee |
| Chairman Department Research Committee (DRC) | 2006 – 2008 | IIT Roorkee |
| Warden Student Hostel (Ravindra Bhawan) | 1992 – 1993 | University of Roorkee |
| Staff Advisor-Basketball/Volleyball | 1989 – 1994 | University of Roorkee |

**Awards/Honors: (09)**

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|  | **2016** | Jury member for public competition for waterless and odourless Toilets in Trains under “Swachh Bharat Abhiyan”, Indian Railways |
|  | **2003** | Certificate of Merit, Institution of Engineers, India. |
|  | **2002** | First Khosla Annual Research Award, University of Roorkee. |
|  | **2002** | Second Khosla Research Award, University of Roorkee. |
|  | **2001** | Corps of Electrical and Mechanical Engineering Medal (Institution of Engineers, India) |
|  | **1999** | Khosla Research Recommendation Award, University of Roorkee. |
|  | **1993** | Second Khosla Research Prize and Medal, University of Roorkee. |
| 1. **7** | **1992** | Khosla Annual Research Award, University of Roorkee. |
|  | **1982** | University Gold Medal for Standing First in First class in M.E. (Machine Design),  University of Roorkee, Roorkee. |

**Area of Research:**

Machine Design, Tribology, Hydrodynamic/ Hydrostatic Lubrication, Coriolis Mass Flow Measuring Techniques.

**International Visits:**

1. **2018**-73rd STLE Annual Meeting, Minneapolis, (USA), May 20-24 , 2018.
2. **2016**- 71th STLE Annual Meeting, Las, Vegas (USA), May 15-19 , 2016.
3. **2015-** Northwestern University (USA) and University of Akron (USA), Under the project sponsored by Indo-US Science and Technology Forum, May 14-25, 2015.
4. **2015**- 70th STLE Annual Meeting, **Dallas, Texas (USA), May 17- 21 , 2015.**
5. **2014-** Northwestern University (USA) and University of Akron (USA), Under the project sponsored by Indo-US Science and Technology Forum, June 8-21, 2014.
6. **2013-** Pan-IIT Alumni 2013 Global Conference at Houston, Texas, Dec 6-8, 2013.
7. **2013**- 68th STLE Annual Meeting, **Detroit, Michigan (USA),May 5- 9 , 2013.**
8. **2012**- 67th STLE Annual Meeting, St. Louis, Missouri (USA), May 06-10, 2012.
9. **2011**- 66th STLE Annual Meeting, Atlanta, Georgia (USA) May 15-19, 2011.
10. **2008** - 63rd STLE Annual Meeting, Cleaveland, Ohio (USA) May 18 – 22.
11. **2003** - ASME / STLE Joint International Tribology Conference, Florida (USA) Oct. 26 – 29.
12. **2000** - ASME / STLE Joint International Tribology Conference, Seattle (USA) Oct. 26 – 29.
13. **1997** - 52nd STLE Annual Meeting, Kansas, Missouri (USA) May 18 – 22.
14. **Oct. 1994- July 1995** – Leverhulme Visiting Fellow at University of Surrey Guildford (UK).

**Colloborative Programme:**

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| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Project No.** |
| 1 | INDO-US JOINT CENTRE FOR ELASTO-HYDRODYNAMIC LUBRICATION STUDIES   * US Collaborating University: Northwestern University, USA, University of Akron, USA. * Indian Collaborating Organization: CSIR- IIP Dehradun, India. | IUSSTF | 2 years | 28.54 Lacs | IUF-723-MID/13-14 |

**Research Guidance:**

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| Ph.D. (Annexure-1) | 24(Awarded) | 05 (In Progress) |
| M.Tech. (Annexure-1) | 76(Awarded) | Nill (In Progress) |
| B.Tech. Project | 48(Awarded) | Nill (In Progress) |

**Research Publications:**

H Index: **26**

I-10 Index: **84**

No. of Citations: **2735**

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| --- | --- |
| * International Refereed Journals | 148\* |
| * Book/series/ Chapter | 03 |
| * Abstracts | 01 |
| * National Journals | 07 |
| * Proceedings of International and National Conferences | 133 |

**For details of publication please see Annexure-2.**

**Number of Projects (Completed/ In Progress):**

1. **Sponsored Research/Projects Undertaken:**

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| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Name of P.I. and other investigators** | **Project No.** |
| 1 | FAULT DIAGNOSIS AND PROGNOSIS OF HIGH SPEED ROLLING ELEMENT BEARING | DST, Govt. of INDIA | 3  Years  (2009-2012) | 31.848 Lacs | Satish C. Sharma(Co P I)  Suraj P. Harsha (P I)  Pradeep Kumar (Co P I) | DST-457-MID |
| 2 | PREDICTION AND OPTIMIZATION OF DISTORTION AND RESIDUAL STRESSES IN AUSTENTIC STAINLESS STEEL PIPE WELDS | Deptt. of Automic Energy, BRNS, GOI | 3  Years  (2011-2014) | 24.3195 Lacs | Satish C. Sharma (Co P I)  Manas M. Mahpatrra (P I)  Pradeep Kumar (Co P I) | BRNS-579-MID |
| 3 | A PARAMETRIC STUDY OF PERFORMANCE OF A CORIOLIS MASS FLOW RATE METER | DST | 3  Years  (2006-2009) | 19.87 Lacs. | Satish C. Sharma ( P I)  Ravi Kumar (P I) | DST-262-MID |
| 4 | EXPERIMENTAL INVESTIGATION OF HYDRODYNAMIC JOURNAL BEARING SYSTEM FOR IMPROVED STABILITY | AICTE (Under MODROBS scheme) | 3  Years  (1995-1998) | 5.00 Lacs | Satish C. Sharma ( P I)  S C Jain (Co P I) | AICTE-5746-03-MID |
| 5 | DESIGN AND DEVELOPMENT OF A PROOF OF CONCEPT MODEL OF AN ADAPTIVE MEMBRANE ***(ON GOING)*** | ISRO | 3  Years  (2015-  2018) | Rs.  29.75  Lacs | Satish C. Sharma (Co P I)  S. Upadhyay (P.I.)  Suraj P. Harsha(Co P I) | ISR-833-MID |

1. **Consultancy Research/Projects Undertaken:**

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| **S. No.** | **Project title** | **Sponsoring agency** | **Duration** | **Financial outlay (in Rs.)** | **Name of P.I. and other investigators** | **Project No.** |
| 1 | ROPEWAY INSPECTION AT MUSSOORIE | SHAIL SHIKHER ASSOCIATES MUSSOORIE | 1 month | 50934 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I) | MID-1005/09-10 |
| 2 | EVALUATION OF ROPE PERFORMANCE | GARHWAL MANDAL VIKAS NIGAM LTD., DEHRADUN | 18 days | 90000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-2007/09-10 |
| 3 | INSPECTION OF ROPEWAY AT MUSSOORIE | M/S SHAIL SHIKHER ASSOCIATES ( REGD. ) MUSSOORIE | 20 days | 50000 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1008/09-10 |
| 4 | STUDY AND DESIGN IMPROVEMENT IN CTRB OF FREIGHT STOCK OF INDIAN RAILWAYS | RDSO, LUCKNOW | 2 years  4  months | 2138713 | Satish C. Sharma(P I)  Suraj P. Harsha(Co P I) | MID-1007/09-10 |
| 5 | TECHNICAL ENQUIRY OF MANSADEVI ROPEWAYS | DISTRICT MAGISTRATE HARIDWAR | 35 days | 200000 | Satish C. Sharma( P I)  V. K. Goel (Co P I)  R.P. Gakkhar (Co P I) | MID-1011/09-10 |
| 6 | INSPECTION OF ROPEWAY AT MANSA DAVI, HARDWAR | DISTRICT MAGISTRATE HARIDWAR | 8 days | 60000 | Satish C. Sharma( P I)  V. K. Goel (Co P I)  R.P. Gakkhar (Co P I) | MID-1003/10-11 |
| 7 | INSPECTION OF KEMPTY FALL ROPEWAY AT MUSSORIE | M/S NEENA CONTRACTORS AND BUILDERS PVT. LTD., DEHRADUN | 11 days | 91000 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1004/10-11 |
| 8 | SITE VISIT AND DISCUSSION AT ONGC | ONGC LTD. VADODRA | 3 months | 15000 | Satish C. Sharma (P I)  M. Mahapatra (Co P I)  Suraj P. Harsha (Co P I) | MID-1005/10-11 |
| 9 | VETTING OF DESIGN FOR MAA CHANDI DEVI ROPEWAY HANGER | M/S USHA BRECO LTD., REGIONAL OFFICE HARIDWAR | 2 months | 180000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1009/10-11 |
| 10 | INSPECTION OF ROPEWAY AT MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES, MUSSORIE | 10 days | 78975 | Satish C. Sharma( P I)  Pradeep Kumar (Co P I) | MID-1011/10-11 |
| 11 | VIBRATION ANALYSIS OF TWO COMPONENTS OF EICHER TRACTORS | EICHER TRACTORS LTD. BHOPAL | 3.5 months | 400000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-1012/10-11 |
| 12 | INSPECTION OF ROPEWAY SYSTEM AT KEMPTY FALL, MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD. DEHRADUN | 1.5 months | 101360 | Satish C. Sharma (Co P I)  Pradeep Kumar (P I)  Suraj P. Harsha (Co P I) | MID-1021/10-11, |
| 13 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES, MUSSORIE | 25 days | 101360 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1022/10-11 |
| 14 | ROOT CAUSES ANALYSIS OF SHAFT FAILURE OF ROPEWAY | EX. OFFICER OFFICE OF NAGAR PALIKA PARISHAD MUSSOORIE | 10 days | 101360 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1004/11-12 |
| 15 | INSPECTION OF OVER ALL OPERATION OF ROPE WAY | M/S SHAIL SHIKHAR ASSOCIATES ROPEWAY MUSSOORIE, DISTT. DEHRADUN UTTARAKHAND | 15 days | 71000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1010/11-12 |
| 16 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT, MUSSOORIE | M/S SHAIL SHIKHAR ASSOCIATES ROPEWAY, MUSSOORIE | 1 months | 101015 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-1001/12-13 |
| 17 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL POINT, MUSSOORIE | M/S SHAIL SHIKHER ASSOCIATES , ROPEWAY JHULAGHAR MUSSOORIE | 25 days | 111250 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6002/12-13 |
| 18 | COMPUTATION AND VALIDATION OF LUBE OIL AND JACKING OIL FLOWS/LOSSES AS WELL AS STIFFNESS AND DAMPING COEFFICIENTS IN HYDRODYNAMIC JOURNAL BEARINGS OF STEAM TURBINE | BHEL HARDWAR | 8 months | 1250000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6021/12-13 |
| 19 | INSPECTION OF ROPEWAY SYSTEM ST GUN HILL POINT, MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 2 months | 109676 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6001/13-14 |
| 20 | INSPECTION OF ROPEWAY SYSTEM AT KAMPTY FALL, MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 45 days | 109676 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6002/13-14 |
| 21 | DESIGN VETTING OF COLUMN BEARING HOUSING | ISGEC, YAMUNAGAR | 1 month 10 days | 300000 | Satish C. Sharma( Co P I)  Suraj P. Harsha ( P I) | MID-6004/13-14 |
| 22 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL, MUSSORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 1 month | 109676 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6018/13-14 |
| 23 | DEVELOPMENT OF A SOFTWARE FOR THE DESIGN OF MULTI PLATE WET CLUTCH. | M/S MAKINO AUTO INDUSTRIES PVT. LTD., NOIDA | 1 year | 300000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6024/13-14 |
| 24 | DEVELOPMENT OF UPGRADED DRAFT GEAR FOR FREIGHT STOCK: DEVELOPMENT OF TESTING REGIMES | RDSO LUCKNOW | 1.5 years | 2125000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6030/13-14 |
| 25 | DESIGN VETTING OF FIXTURE OF 28 AXLE RAIL WAGON | BHEL HARIDWAR | 8 month 15 days | 870000 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I)  Pradeep Kumar (Co P I) | MID-1004/09-10 |
| 26 | DESIGN OF 650 KN LIFTING SYSTEM | PIONEER FABRICATION (P) LTD., MEERUT | 25 days | 30734 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I)  Pradeep Kumar (Co P I) | MID-1007/10-11 |
| 27 | ANALYSIS OF 250 MW FRANCIS TURBINE COMPONENTS FOR KARCHAM WANGTOO HEP. (1000 MW), | M/S JAI PRAKASH ASSOCIATES LTD. NOIDA | 2 months | 480000 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I) | MID-1010/10-11 |
| 28 | STUDY AND ROOT CAUSE ANALYSIS OF HIGH VIBRATION ANALYSIS IN CIRCULATING WATER PUMPS 2X250 MW THERMAL POWER PLANT, CHABBRA ( RAJASTAN), | M/S PUNJ LLOYOD LTD. GURGAON, | 22 days | 700000 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I) | MID-1014/10-11 |
| 29 | FEASIBILITY STUDY FOR USE OF PTEF (TEFLON) MULTIBALL BEARINGS SUPPORT FOR CONDENSOR. | BHEL, HARIDWAR | 7 months  15 days | 850000 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I) | MID-1015/11-12 |
| 30 | DESIGN OF DEWATERING AND DRAINAGE SYSTEM FOR FLOOD CONTROL AT TEHRI DAMS | THDC LTD. | 1 year 10 months | 724801 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I) | MID-1015/11-12 |
| 31 | PERFORMANCE ENHANCEMENT OF MULTIPURPOSE HIGH LOW PRESSURE- FIRE PUMP | SHRI GANESH FIRE EQUIPMENTS(P) LTD., NEW DELHI | 9 months | 825000 | Satish C. Sharma(Co P I)  Suraj P. Harsha ( P I) | MID-6016/13-14 |
| 32 | ANNUAL TESTING OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 25 days | 22274 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1011/06-07 |
| 33 | ROPEWAY INSPECTION AT DEHRADUN | SHRI GANPATI SAGAR HILL RISE, DEHRADUN | 12 days | 25000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1003/07-08 |
| 34 | INSPECTION OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 22 days | 50000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1001/08-09 |
| 35 | MAINTENANCE EVALUATION OF ROPEWAY | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 15 days | 50000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1004/08-09 |
| 36 | SITE VISIT OF ROPEWAY SYSTEM AT JHULAGHAR | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 1 months | 50934 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1001/09-10 |
| 37 | INSPECTION OF ROPEWAY SYSTEM AT KEMPTY MUSSORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 10 days | 101325 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-1003/12-13 |
| 38 | AIRCRAFT NOISE MONITORING AROUND INDIRA GANDHI INTERNATIONAL AIRPORT | CENTRAL POLLUTION CONTROL BOARD, NEW DELHI | 1.5 years | 400000 | Satish C. Sharma( Co P I)  S P Nigam (P I)  S C Jain (Co P I)  M Bhattacharya (Co P I) | MID-II-001/99-2000 |
| 39 | PLANNING AND DESIGN OF GRAVITY ROPEWAY IN NAGALAND. | NATIONAL HORTICULTURE BOARD,MINISTRY OF AGRICULTURE (GOI) | 7 months | 1500000 | Satish C. Sharma( Co P I)  R.P. Gakkar (P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (Co P I) | MID-1015/10-11 |
| 40 | SITE OF ROPEWAY SYSTEM AT KEMPTY FALL,  MUSSOORIE | M/S NEENA CONTRACTORS & BUILDERS PVT. LTD.,DEHRADUN | 35 days | 90000 | Satish C. Sharma( Co P I)  Suraj P. Harsha (Co P I)  Pradeep Kumar (P I) | MID-1002/09-10 |
| 41 | SITE VISIT DISCUSSION AT SITE AND ADVICE FOR QUALITY ASSURANCE FOR DEVELOPMENT OF BIHAR STATE UNDER RSVY BY CPWD | CPWD PATNA BIHAR | 2 YEARS 15 DAYS | 22961908 | Satish C. Sharma( Co P I)  S C Jain and others | CTS-1001/08-09 |
| 42 | FIELD AND LABORATORY STUDIES FOR QUALITY ASSURANCE FOR DEVELOPMENT OF BIHAR STATE UNDER RSVY BY CPWD | CPWD PATNA BIHAR | 2 YEARS 15 DAYS | 22961908 | Satish C. Sharma( Co P I)  S C Jain and others | CTS-2002/08-09 |
| 43 | THIRD PARTY INSPECTION OF 100 CUSEC WATER TREATMENT PLANT TO SUPPLY WATER TO GREATER NOIDA | PROJECT MANGER, GANGA JAL PROJECT UNIT, UP JAL NIGAM, PRATAP VIHAR GHAZIABAD | 3 years | 6230000 | Satish C. Sharma( Co P I)  V.K. Goel and others | CED-1067/10-11 |
| 44 | EROSION ANALYSIS OF GUIDE VANE-KW HYDRO ELECTIC | JAI PRAKASH POWER VENTURES LTD, NOIDA | 5 Months  10 Days | 898880 | Satish C. Sharma( Co P I)  Suraj P. Harsha (P I) | MID-6003/14-15 |
| 45 | DEVLOP WELDING PARAMETERS FOR OUTER RING OF GBC 250/500/600/800 MW TO CONTROL DISTORTION | BHEL, HARIDWAR | 6 Months | 880000 | Satish C. Sharma( Co P I)  Suraj P. Harsha (Co P I)  Dr. M.M Mahpatra(P I) | MID-6002/14-15 |
| 46 | A STUDY ON HYDRODYNAMIC JOURNAL BEARINGS OF STEAM TURBINE TO COMPUTE THE LUBE OIL AND JACKING OIL FLOW/LOSSES BY CONSIDERING THE TEMPERATURE VARIATION IN OIL FILM | BHEL, HARIDWAR | 1 year | 2022000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6006/14-15 |
| 47 | DESIGN AND CALCULATION OF AERIAL ROPEWAYS FOR TRANSPORT OF MATERIALS | Uttarakhand Agricultural Produce Marketing Board Dehradun  Niranjanpur  DEHRADUN- 248001 | 1 Months  25 Days | 199500 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6008/15-16 |
| 48 | INSPECTION OF ROPEWAY SYSTEM AT GUN HILL, MUSSORIE | M/S SHAIL SHIKHER ASSOCIATES , ROPEWAY JHULAGHAR MUSSOORIE | 1 Months  15 Days | 135000 | Satish C. Sharma( P I)  Suraj P. Harsha (Co P I) | MID-6012/15-16 |
| 49 | MECHANICAL FAULT DIAGNOSIS OF GEAR UNDER VARIOUS CONDITIONS | ISGEC, YAMUNAGAR | 2 Months  10 Days | 148200 | Satish C. Sharma( Co P I)  Suraj P. Harsha (P I) | MID-6011/15-16 |
| 50 | ROPEWAY INSPECTION AT JHULAGHAR, MUSSOORIE | M/S SHAIL SHIKHAR ASSOCIATES (REGD.), MUSSORIE | 25 Days | 174239 | Satish C. Sharma( Co P I)  Suraj P. Harsha (P I) | MID-6001/16-17 |
| 51 | VIBRATION DATA ANALYSIS OF HIGH SPEED ROTARY MACHINE ANS AUXILLIARIES AT TEHRI HPP AND KOTESHWOR HEP | TEHRI HPP AND KOTESHWOR HEP | 1 Year | 1488500 | Satish C. Sharma( Co P I)  Suraj P. Harsha (P I) | MID-6003/16-17 |
| 52 | EVALUATION OF PERFORMANCE OF PARTIAL ARC (120⸰) HYDROSTATIC/HYBRID JOURNAL BEARING FOR WET BALL MILL APPLICATION ***(ON GOING)*** | BHEL, HYDERABAD | 8  Months | 18,88,000 | Satish C. Sharma ( P I)  Suraj P. Harsha (Co P I) | MID-6012/17-18 |
| 53 | EVALUATION OF ENTRIES RECEIVED DURING PUBLIC CHALLENGES FLOATED BY RDSO  ***(ON GOING)*** | RDSO Lucknow | 8 Months | 25,53,096 | Satish C. Sharma ( P I)  Suraj P. Harsha (Co P I) | MID-6009/17-18 |

**Short Term Courses Organized : (10)**

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| **S. No.** | **Dates** | **Title** | **Sponsors** |
| 1 | Aug. 16–20, 1999 | **Pipe Line Technology** | ONGC |
| 2 | Sept. 10–14, 2001 | **Pipe Line Technology** | ONGC |
| 3 | Dec. 03–06, 2008 | **Bearing Technology & Maintenance** | Continuing Education Center,Indian Institute of Technology Roorkee. |
| 4 | July 06-10, 2009 | **Sound and Vibrations, Fundamental, Measurement, Diagnostics & Analysis** | Continuing Education Center,Indian Institute of Technology Roorkee. |
| 5 | April 3-6, 2010 | **Diagnostics and Condition Monitoring of Rotating Machines** | RDSO, NTPC, THDC, CEC, IIT Roorkee, Roorkee. |
| 6 | Sept. 24-26, 2010 | **Strength of Materials** | RDSO Lucknow. |
| 7 | March 7-10, 2011 | **Vibration Condition Monitoring Techniques For Fault Diagnosis** | L&T, NBC, NTPC, BHEL, FAG, TIMKEN, THDC etc. |
| 8 | Dec. 26-30, 2011 | **Dynamics and Control of Mechanical Systems** | AICTE sponsored, QIP,IIT Roorkee |
| 9 | Dec. 21-23, 2012 | **Noise Monitoring and Control Technologies** | CPCB New Delhi |
| 10 | Dec. 30,2013-Jan. 03, 2014 | **Modelling and Simulation of Dynamical Systems** | Continuing Education Center,Indian Institute of Technology Roorkee. |

**Conference Organized:**

**National Tribology Conference (NTC-2011) Dec 08-10, 2011**, Department of Mech. & Ind. Engg. IIT Roorkee.

Capacity-as a Chairman. The NTC-2011 Conference was organized under aegis of Tribology Society India. The Conference was attended by over 100 delegates. The keynote lectures were presented by experts from India and Abroad. A large number of organization such as IOCL, NBC Bearing, L&T, DUCOM, Kittiwake, K. K. distributers, AEP technologies (USA), DST(GOI), CSIR(GOI), BARC(GOI) sponsored the conference.

**COPYRIGHTS:**

1. Copyright filed on “An efficient method to compute performance characteristics of two-lobe Hydrodynamic Journal Bearing” by Navin Kumar\*, Akash Shukla\*, Sanjay Bansal\*, **Dr. Satish Chandra Sharma+**, Dr.S.P. Harsha+, Saurabh Kumar Yadav+ and Chandra B Khatri+, CR\_NO : 150284HW and Diary No : 5136/2016-CO/L. \* Bharat Heavy Electricals Limited, India and + Indian Institute of Technology Roorkee, India.
2. Copyright filed on “Program to compute performance characteristics of two-lobe Hydrodynamic Journal Bearing” by Navin Kumar\*, Akash Shukla\*, Sanjay Bansal\*, **Dr. Satish Chandra Sharma+**, Dr.S.P. Harsha+, Saurabh Kumar Yadav+ and Chandra B Khatri+, CR\_NO : 150278HW and Diary No : 5119/2016-CO/SW. \* Bharat Heavy Electricals Limited, India and + Indian Institute of Technology Roorkee, India.

**Memberships of Professional Bodies:**

1. Member-Apex Advisory committee (R&D), Tehri Hydro Development Corporation Ltd., 2012-15, 2015-2018.
2. Tribology Committee Member IFToMM (International Federation for the Promotion of Mechanisms and Machines, 2013 to till date.
3. Executive Member-Tribology Society of India, Jan 2017-Dec 2018.
4. Member Board of Studies- Indira Gandhi Delhi Technical University for women, Dec 2016-Dec 2018.
5. Member-National Committee on Noise Pollution control, Central Pollution Control Board New Delhi, (Jan. 2014- Dec. 2015).
6. Joint secretary, Tribology Society of India (TSI), 2014-2016.
7. Executive Member of Tribology Society of India (TSI) 2009-2010, 2011-2012 & 2013-14.
8. Member, Board of Post Graduate Education and Research in Engineering and Technology AICTE, New Delhi, 2009-2011
9. Member Central Board of Railway Research (CBRR), RDSO, Lucknow2011-12.
10. Member-Academic Council, Mahamaya Technical University, Noida, G.B. Nagar(U.P)
11. Member of Board of Studies Guru Jambeshawar University (Hissar).
12. Member of Board of Studies Thaper University, Patiala, Punjab.
13. Life member of Indian Society of Mechanical Engineers (ISME)
14. Life member of Tribology Society of India (TSI)
15. Life member of Instrument Society of India (ISOI)
16. Member Institution of Engineers (INDIA)

**Other Extension Activities:**

1. Expert in selection committee of BITs, Pilani, Goa Campus (July, 2016)
2. Expert in selection committee of IIP, Dehradun (June, 2016)
3. Member peer team NAAC
4. Expert in selection committee of DTU, New Delhi (Jan. 2015).
5. Expert in selection committee of IIITDM Jabalpur (Aug. 2014).
6. Expert in selection committee of IIT Delhi.
7. Expert in selection committee of Uttrakhand Public Service Commission, Haridwar.
8. Expert in selection committee of Uttrakhand Technical University, Dehradun.
9. Expert in selection committee of College of Technology, GBPUAT, Pantnagar.
10. Expert in selection committee of Guru Jambeshawar University (Hissar).
11. Expert in selection committee of MNIT Jaipur.
12. Expert in selection committee of NIT Kurushetra.
13. Expert in selection committee of Thapar University, Patiala.
14. Expert in selection committee of Punjab University, Chandigarh.
15. Expert Member in the NBA Accreditation team to various engineering Institutes.
16. Chaired Technical Sessions in many Conferences.
17. Delivered Invited Expert Lectures in various Programmes.

**Courses and Lab Developed:**

1. Developed Tribology Laboratory in the Department.
2. Developed a Web Based Course on ‘Strength of Material’ under the National Programme on Technology Enhanced Learning (NPTEL) – MHRD, Government of India, September, 2006.
3. Developing the following courses under the MHRD Scheme NPTEL, 2014
4. Vibration control (web course)
5. Dynamics of mechanical system (web course)

**Ph.D Thesis Examiner:**

* I.I.T Delhi
* N.I.T Hamirpur
* N.I.T Kurukshetra
* N.I.T Surathkal
* N.I.T Jamshedpur
* B.I.T.S Pilani
* Jamia Millia Islamia, Delhi
* Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
* Anna University, Chennai
* NIT Srinagar, J & K
* IIITDM Jabalpur
* University of Kerala
* Gautum Budhha University, Greater Noida, Uttar preadesh
* Manipal University, Karnataka
* Delhi Technological University (DTU) Delhi
* Uttarakhand Technical University

**Reviewer of International Journals:**

* Tribology International
* ASME Journal of Tribology
* Journal of Engineering Tribology (IMechE, Part J)
* WEAR
* Surface and Coatings Technology
* Institution of Engineers (India)
* TSI Journal (India)
* Industrial Lubrication and Tribology
* ASME journal of Vibration and Acoustic
* STLE Tribology Transaction
* Lubrication Science
* International Journal of Surface and Coatings etc.
* International Journal of Vibration and Control, Sage Publication
* Advances in Tribology
* Mechanics and Industry
* Advances in Mechanical Engineering

**Keynote Lectures**

1. “**Failure Mechanism of Fluid Film Bearings**” Faculty Development Programme under TEQIP-III, NIT Jalandhar, July, 03, **2018**.
2. “**Textured Fluid Film Bearings”,** SRM University, Chennai, India, June 11, **2018.**
3. “**Basics of Fluid Film Lubrication”,** 9th International Conference of Industrial Tribology(ICIT)-2017, Kolkata, India, 06-09, **2017.**
4. “**Basics of Fluid Film Lubrication”,** 9th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 19-06-**2017.**
5. “**Basics of Fluid Film Lubrication”,** 8th Summer School in Tribology under the aegis of Tribology society of India, IISc Banglore, 25-07-**2016.**
6. “**Hydrostatic/Hybrid Bearings - Some Recent Advances”,** Indian Institute of Engineering Science and technology Shibpur, Howrah, 03-08-**2016**.
7. “**Stability analysis of fluid film journal bearing system”,** Graphics Era University, Dehradun, May.05, 2016
8. **“Tribology and its Impact”,** NIT, Uttarakhand, April 09, 2016
9. **“Tribology and its Impact”,** GBU, Noida, March 05, 2016
10. **“Tribology and its Impact”,** DIT, Dehradun, Jan. 22, 2016
11. **“Basics of Fluid Film Lubrication:- Hydrostatic Bearings”** IIT Delhi, Dec. 10, **2015**
12. **“Basics of Fluid Film Lubrication”** 7th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 09-06-**2015.**
13. **“Tribology and Its Impact”,** International conference on newest drift in Mechanical Engineering (ICNDME-2014) MMU University, Dec. 20, **2014**
14. **“Tribology and Its Impact- Consideration for Lubrication Science & their Applications”,** National Tribology Conference-2014, PES College, Bangalore, Dec. 16, **2014.**
15. **“Tribology and Its Impact- Consideration for Lubrication Science & their Applications”,** BMS College, Bangalore, Dec. 16, **2014.**
16. **“Principals of Hydrostatic Lubrication”** 6th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 24-06-**2014.**
17. **“Fluid Film Lubrication”** 5th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 24-06-**2013.**
18. **“Fluid Film Lubrication”** Pre-Conference Education Course on Basic of Tribology, Hotel Westin Pune, December 6, **2012**
19. **“Fluid Film Lubrication”** 4th Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 26-06-**2012.**
20. **“FEM Applications in Fluid Film Journal Bearings”** CEP Course, DEAL(DRDO), Dehradun, 24.06.2012
21. **“Coriolis Mass Flow Sensors- A State of art”,** Thapar University, Patiala. Feb. 24-26,**2011**.
22. **“FEM applications in Engineering,”** Graphic Era, Dehradun, Uttarakhand,27-05-**2011**.
23. **“Fluid Film Bearings,”** 3rd Summer School in Tribology Under the Aegis of Tribology Society of India, IIPM, Gurgaon, 22-06-**2011.**
24. **“Fluid Film Lubrication”** IIT Ropar, Punjab, January 7, **2011.**
25. **“Fluid Film Lubrication”** 2nd Summer School in Tribology under the aegis of Tribology society of India, IIPM Gurgaon, 21-06-**2010.**
26. **“Design and Development of Hydrostatic Bearing”** IIT New Delhi, May 11, **2010.**

**ANNEXURE - 1**

**LIST OF Ph.D. THESIS SUPERVISED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Title** | **Year** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | Elastohydrostatic Lubrication of Journal Bearing operating with Non- Newtonian Lubricants | 1999 | Prakash Lal Sah | Dr. S.C. Jain |
| 2 | Thermoelastohydrostatic analysis of Non-Recessed Hybrid Journal Bearings | 2000 | Vijay Kumar | Dr. S.C. Jain |
| 3 | Performance of Non-Recessed Hybrid Journal Bearings with Surface Roughness Effects | 2003 | T. Nagaraju | Dr. S.C. Jain |
| 4 | Performance of Multirecess Compensated Flexible Journal Bearing with Recess Shapes | 2004 | Narendra Singh | Dr. S.C. Jain |
| 5 | The Influence of Wear and Running – in on Fluid Film Journal Bearing System | 2006 | Rajeev Kumar Awasthi | Dr. S.C. Jain |
| 6 | Development of Cu-Cr Alloy Based Composite and their Physical and Tribological Properties. | 2009 | Rakesh Kumar Gautam | Dr. S.C. Jain  Dr. S. Ray |
| 7 | Performance of E.R. Fluid Lubricated Hybrid Journal Bearing System | 2010 | J.S. Basavaraja | Dr. S.C. Jain |
| 8 | Fault Diagnosis and Prognosis of High Speed Rotor Bearing Systems | 2011 | Pawan K. Kankar | Dr. S. P. Harsha |
| 9 | Parametric study of Vibration based Electromechanical Coriolis Mass Flow Sensor | 2011 | Pravin P.Patil | Dr. S.C. Jain |
| 10 | Dynamic Analysis of Single Walled Carbon Nanotube Based Mass Sensor | 2012 | Anand Y. Joshi | Dr. S. P. Harsha |
| 11 | Influence of Wear on the Performance of Multirecess Fluid Film Journal Bearings | 2012 | Vikas M. Phalle | Dr. S.C. Jain |
| 12 | Optimum Design Considerations for Steel Cleanliness in Tundish Steelmaking | 2012 | Sabin Mishra | Dr. P. K. Jha  Mr.S. K. Ajmani (TISCO) |
| 13 | Modeling and Evaluation of Mechanical Properties of Carbon Nanotube Reinforced Composites | 2012 | Unnati Pandya | Dr. S. P. Harsha |
| 14 | A Study of Non-Recessed Journal Bearings with Micropolar and Couple stress Lubricants | 2013 | Nathi Ram | --------------- |
| 15 | Study Of Geometrically Imperfect Multirecess  Fluid Film Hybrid Journal Bearings | 2014 | Arvind Kumar Rajput | --------------- |
| 16 | Dynamic analysis of Rail wheel Structure due to defects | 2015 | Nagvendra Kumar | Dr. S. P. Harsha |
| 17 | Design for Assembly-Stack up of Geometrical Tolerances for Cost Optimization | 2015 | Ajay Kumar Sahani | DR. P. K. Jain |
| 18 | Performance Of Multilobe Non-Recessed Hydrostatic/Hybrid Journal Bearings | 2015 | Prashant B. Kushare | --------------- |
| 19 | Analysis of Boron Nitride Nanotube Reinforced Composites | 2015 | Sandesh Trivedi | Dr. S. P. Harsha |
| 20 | Design and Development of Upgraded Draft Gear for Freight Stock vehicle | 2016 | Harak Sachin Sudhakar | Dr. S. P. Harsha |
| 21 | A Study on The Lubrication of Hydrostatic Thrust Pad Bearings | 2016 | Saurabh Kumar Yadav | -------------- |
| 22 | Study and Analysis of Failure of Line Contact Bearing Under Micro EHL Condition | 2016 | G. D. Thakre | Dr. S. P. Harsha  Dr. M. R. Tyagi (I.I.P. Dehradun) |
| 23 | Influence of Geometric Imperfections of Journal in Non-circular Multirecess Hybrid Bearings | 2017 | Dharmendra Jain | -------------- |
| 24 | A Study of Non-Recessed Hybrid Journal Bearings with Textured Surfaces | 2018 | Chandra Bahadur Khatri | -------------- |

**LIST OF Ph.D. THESIS Currently Under Progress**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.**  **No.** | **Title** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | Effect of non-linear behavior of lubricants on hydrostatic/hybrid bearings performance | Vivek Kumar | --------------- |
| 2 | A Study of Elastohydrodynamic Lubricated Soft Contacts | Suresh Jadhav | Dr. G. D. Thakre (I.I.P. Dehradun) |
| 3 | A Sof tudy on the Performance of Slot Entry Hybrid Journal Bearing | Krishnkant Sahu | -------------- |
| 4 | Fluid Film Lubrication | Abhishek Kumar | -------------- |
| 5 | Fluid Film Lubrication | Adesh | -------------- |

**LIST OF M. TECH. THESIS SUPERVISED**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Title** | **Year** | **Candidate** | **Co-Supervisor**  **If any** |
| 1 | Elastohydrostatic Study of 6–Pocket Journal Bearing System | 1992 | Rajiv Shalia | Dr. S.C. Jain |
| 2 | A Knowledge Based System for the Selection and Design of Flanges for Pressure Vessels | 1994 | Pradeep Kumar Koshti | Dr. S.C. Jain |
| 3 | Hybrid Performance of Misaligned Journal Bearing System without Pressure Chambers Between Bearing Surfaces | 1994 | T. Nagaraju | Dr. S.C. Jain |
| 4 | The Effect of Shape and Size of Recesses on the Performance of Compensated Hydrostatic Journal Bearings using FEM | 1995 | Shant Kumar Singh | N. Singh |
| 5 | Performance of Hybrid Bearings in Laminar and Turbulence Regions | 1995 | Anshuman Jagtap | Dr. S.C. Jain |
| 6 | Performance of Flexible Hybrid Bearings in Laminar and Turbulent Regions | 1996 | N. Ramesh Babu | Dr. S.C. Jain |
| 7 | Performance Characteristics of a 6 Pocket Hybrid Flexible Journal Bearing in Turbulent Regime | 1997 | P. Hari Sankar | Dr. S.C. Jain |
| 8 | Performance Characteristics of a Slot Entry Hydrostatic Journal Bearing using Finite Element Method | 1997 | M. Subramanian | --------------- |
| 9 | Effect of Load direction on the Elastohydrostatic Performance of Multirecess Journal Bearings | 1997 | B.V.N. Surendra Kumar | --------------- |
| 10 | Elastohydrostatic Performance of a Slot – Entry Journal Bearing System | 1998 | N. Madhu Mohan Reddy | --------------- |
| 11 | Hydrostatic Performance of a Circular Thrust Pad Bearing with Different Recess Shapes | 1999 | Dipak Kumar K. Bharuka | --------------- |
| 12 | Influence of Thermal Effects on the Performance of Hole – Entry Hybrid Journal Bearings | 2000 | Yuwraj J. Rajput | Dr. S.C. Jain |
| 13 | Performance of Slot - Entry Hybrid Journal Bearing Considering Thermal Effect | 2001 | Girraj Prasad | --------------- |
| 14 | Design of Non Recessed Hybrid Journal Bearing for Optimal Performance Characteristics | 2001 | Pravesh Kant Gupta | Dr. S.C. Jain |
| 15 | Performance of a Multirecess Hydrostatic /Hybrid Journal Bearing of Different Recess Shapes with Membrane Restrictor | 2001 | Nitin Kumar Agarwal | --------------- |
| 16 | Effect of Size of a hole on the Performance of a Hole – Entry Hybrid Journal Bearing | 2001 | Rajneesh Kumar | --------------- |
| 17 | Failure Analysis of Cover Plate of a Head Stock Using Finite Element Method | 2001 | Akhil Kumar Verma | Dr. S.C. Jain |
| 18 | Influence of Surface Roughness Effects on the Performance of Hole – Entry Hybrid Journal Bearing | 2002 | Nathi Ram | Dr. S.C. Jain |
| 19 | Development of a Suitable Mechanism for a Deployable Space Antenna of 5.5 meter diameter | 2002 | Ram Suchit Mishra | Dr. S.C. Jain |
| 20 | Influence of Recess Shape and Bearing Flexibility on the Performance of Membrane Compensated Hybrid Journal Bearing System | 2003 | S. Sanjeeva Reddy | --------------- |
| 21 | Combined Influence of Journal Misalignment and Recess Shape on the Performance of Hydrostatic Journal Bearing System | 2003 | Devesh Ranjan Mall | N. Singh |
| 22 | A Study of Slot Entry Hybrid Journal Bearing System considering Surface Roughness | 2003 | Kamlesh Suresh Pandhare | Dr. S .C. Jain |
| 23 | Design of Axi – Symmetric Deployable Reflection Antenna for Communication Satellite | 2003 | Jopaul K. Ignatius | Dr. S.C. Jain |
| 24 | Simulated Study of Sliding Wear | 2004 | Vinod Dnyaneshwar Patil | Dr. S.C. Jain |
| 25 | Influence of Geometric Shape of Recess on the Performance of a Six – Pocket Hydrostatic / Hybrid Journal Bearing System | 2004 | Bhaskar Rao Mattapally | --------------- |
| 26 | Performance of Multirecess Hydrostatic / Hybrid Journal Bearing Considering Combined Influence of Recess Shape and Non-Newtonian Behaviour of Lubricant; | 2005 | Jitendra Singh Rathore | Dr. S.C. Jain |
| 27 | To Study the Performance Characteristics of Total Cross Flow (TCF) Multirecess Hydrostatic / Hybrid Journal Bearing | 2006 | Paras Kumar | Dr. S.C. Jain |
| 28 | A Theoretical Analysis of a Cow Catcher | 2006 | Anil Kumar | Dr. V.K. Goel |
| 29 | Performance of Multilobe Multirecess Hybrid Journal Bearing | 2007 | Prashant B Kushare | Dr. S.C. Jain |
| 30 | Combined Influence of Hole Size and Journal Misalignment on the Performance of Hole – Entry Hybrid Journal Bearing | 2007 | Neeraj Sharma | --------------- |
| 31 | Finite Element Analysis of Plano – Milling Machine Tool Structure | 2007 | Migbar Assefa | Dr. N.K. Mehta |
| 32 | Design of Two – Lobe Hydrodynamic Journal Bearings | 2008 | Arpan Nagar | Dr. S.C. Jain |
| 33 | A Study on the Performance of Coriolis Mass Flowmeter | 2009 | Maj. Ashish Vasudev | Dr. Ravi Kumar |
| 34 | Influence of Wear on the Performance of Capillary Compensated Hydrostatic/ Hybrid Journal Bearing | 2009 | Vijaya Kumar. E. | --------------- |
| 35 | Dynamic Behaviour of Damper in an End-Mill | 2009 | Ravikant Mittal | Dr. S.P. Harsha |
| 36 | Modeling and Simulation of Roller Chain Drive | 2009 | Mahendra Kumar. Jangid | Dr. S.P. Harsha |
| 37 | Thermohydrodynamic Analysis of Tilting Pad Thrust Bearing | 2009 | Gobind Sarkar | Dr. S.C. Jain |
| 38 | Finite Element Analysis of Vibration Based Mass Flow Sensor | 2010 | Prabhakar Singh | Dr. Ravi Kumar |
| 39 | Investigation of Inclusion Removal Process In Tundish Steel Making Process | 2010 | Ambrish Maurya | Dr. P K Jha |
| 40 | Fault Analysis of Single Walled Carbon Nanotube | 2010 | Ashish Bhatnagar | Dr. S.P. Harsha |
| 41 | Fault Diagnosis of High Speed Rotor Bearing System Using Machine Learning Techniques | 2010 | Kalyan Manohar Bhavraju | Dr. S.P. Harsha |
| 42 | Optimization of Journal Bearing | 2010 | Anaskure Avinash Suresh | --------------- |
| 43 | A Study on the Performance of Hydrostatic/Hybrid Journal Bearing Considering Combined Influence of Wear and Micropolar Lubrication | 2010 | E. Rajsekhar Nicodemus | --------------- |
| 44 | Performance Evaluation of Coriolis Mass Flow Sensor | 2011 | Arvind Kumar Rajput | --------------- |
| 45 | Finite Element Method and Artificial Intelligence Based Modeling of Mixed-Mode Crack Propagation in Thin Structural Steel Sheet | 2011 | Dharmendra Jain | Dr. M. M. Mahapatra |
| 46 | A Computational Study of Mechanical Properties of CNT Composites for Various Defects | 2011 | Preeti Joshi | Dr. S.P. Harsha |
| 47 | Dynamic Analysis of Single Wall Carbon Nanotubes as a Bio-Sensors | 2011 | Kuldeep Gupta | Dr. S.P. Harsha |
| 48 | A Study on the Performance of Hole-Entry Hybrid Journal Bearings Operating in Turbulent Regime | 2011 | Devendra Sankla | --------------- |
| 49 | A study of turbulent lubricated hydrostatic/ hybrid multirecess 3 lobe journal bearing | 2012 | Amit Kumar | --------------- |
| 50 | Influence of wear on the performance of slot- entry journal bearings operating in turbulent regime | 2012 | Patil Kiran Shivaji | --------------- |
| 51 | Health Diagnosis of High Speed Ball Bearing Acoustic Emission Technique | 2012 | Patil Pravin Ganpati | Dr. S.P. Harsha |
| 52 | Combined Influence of Wear on the Performance of 2- Lobe Six Pocket Hybrid Journal Bearing System in Turbulence Regime | 2012 | J. Saravanan | Dr. S. H. Upadhyay |
| 53 | FEM Analysis of Rail Wheel of Passenger Coaches | 2012 | Pankaj Kumar Bhardwaj | Dr. S.P. Harsha |
| 54 | Dynamic Analysis of Carbon Nanotube based Mass- Sensors using Continuum/ Molecular Mechanics Approach | 2012 | Ankit Gupta | Dr. S.P. Harsha |
| 55 | Modeling and Simulation of Freight Railway Vehicle | 2013 | Mulu Girmay | Dr. S.P. Harsha |
| 56 | Weight Optimization of Railway Freight Bogie | 2013 | Tony Thomas | Dr. S.P. Harsha |
| 57 | Performance Evaluation of Tilting Pad Hydrodynamic Journal Bearing | 2013 | Ashish Sharma | Dr. S.P. Harsha |
| 58 | Friction Studies of EHL Lubricated Contacts | 2013 | Saurabh Chauhan | Dr. S.P. Harsha |
| 59 | Performance of 2-Lobed Hydrostatic/Hybrid Journal Bearing Operation in Turbulent Regime | 2013 | Raja P. | --------------- |
| 60 | Dynamic Analysis of Rail Wheel Interaction | 2013 | Avinash Anand | Dr. S. H. Upadhyay |
| 61 | Dynamic Analysis of Upgraded Draft Gear in Freight Wagon | 2014 | Pawar Sanket Kartarsing | Dr. S.P. Harsha |
| 62 | Analysis of Fishplate Joint in a Curved rail Track | 2014 | Prabhat Kumar Chanchal | Dr. Anil Kumar-II |
| 63 | Design of a compound spring suspension System for a HHP locomotive | 2014 | Pradeep Kumar Yadav (Part Time) | Dr. Anil Kumar-II |
| 64 | Performance Analysis of a Tilting pad hydrodynamic Journal bearing operating in Turbulent Regime | 2014 | Aasheesh Kumar | Dr. S.P. Harsha |
| 65 | Realistic Prediction of Rail Stresses | 2014 | Manish Tagnoo | Dr. Anil Kumar-II |
| 66 | Prognostics Of High Speed Rolling Element Bearings | 2015 | Abhishek Rawat | Dr. S.P. Harsha |
| 67 | A Numerical Study Of Rail Stress Calculations For High Speed Freight Wagons | 2015 | Apul Nautiyal | Dr. Anil Kumar-II |
| 68 | Influence Of Pivots Stiffness On The Performance Of Tilting Pad Hydrodynamic Journal Bearings | 2015 | Deepak Chandra Pargain | Dr. Anil Kumar-II |
| 69 | Performance Of Partial Arc Hydrostatic/Hybrid Multi-Recess Journal Bearings Considering Wear. | 2015 | Jeewan Chandra Atwal | Dr. S.P. Harsha |
| 70 | Modeling Of Elevated Temperature Abrasive Wear Characteristics Of Grain Refined Alumunium Based Metal Matrix Composites. | 2015 | Jagan Nath Mohapatra | Dr. M.M Mahapatra |
| 71 | Dynamic Analysis Of Freight Railway Vehicles | 2015 | Shashank B. Kedare | Dr. S.P. Harsha |
| 72 | A Study of 180 Degree Partial Arc Orifice Compensated Hydrostatic/Hybrid Journal Bearings | 2016 | Amar Jeet | --------------- |
| 73 | Influence of Viscosity Variation Due to Pressure on The Performance of Two lobed Hydrostatic/Hybrid Journal Bearings | 2016 | Manoj Kumar | -------------- |
| 74 | A Study of Suspension System of High Speed Trains | 2016 | Sahil Jaggi | Dr. S.P. Harsha |
| 75 | A Study of Transient Analysis of 4-pocket Multi-recess Journal Bearing | 2016 | Kshirsagar Onkar Yashwant | Dr. S. H. Upadhyay |
| 76 | Performance of Geometrically Imperfected two-lobe CFV compensated hybrid journal bearing lubricated with non-Newtonian lubricant | 2017 | Barun Sharma | ------------- |

**ANNEXURE – 2**

**Book/Series/Chapters Published**

1. **Satish C. Sharma,** “Tribology in Machine Components” Book Chapter fromTribology for Scientists and Engineers: From Basics to Advanced Concepts, **Springer New York, USA**, pp 821-879, **2013.**
2. Sahani A K, Jain P K and **Sharma Satish C**, “Geometrical Tolerance Stack up Techniques”, Chapter 52 in DAAAM International Scientific Book, **Vienna Austria,** pp 857-872, **2013.**
3. Pravin P Patil, **Satish C. Sharma,** S.C. Jain,Modeling Copper omega type Coriolis Mass Flow Sensor with an aid of ANFIS tool**,** Advances in Intelligent and Soft Computing ***–*** series Part-II, Springer, pp.131-140,**2011.**

**Research Paper published in Key International journals:**

* ASME Journal of Tribology (ASME)
* Tribology International (Elsevier)
* STLE Tribology Transactions(USA)
* WEAR (Elsevier)
* Engineering Failure Analysis
* Lubrication Science
* Physica E
* Journal of Nonlinear Dynamics
* Journal of of Computational and Nonlinear Dynamics,
* Neurocomputing
* Expert Systems with Application
* Advances in Tribology (Hindawi)
* Finite Element in Analysis and Design (Elsevier)
* Instruments and Experimental Techniques (Springer)European Journal of Mechanics / A Solids (Elsevier)
* Industrial Lubrication and Tribology(Emerald)
* IJMME (UMIST)
* International Journal of Machine Tools and Manufacture (UK)
* Measurement (Elsevier)
* ASME Journal of Nanotechnology in Engineering and Medicine
* Sensors and transducers journal (IFSA, Spain)
* Computational Material Science
* ASME Journal of Dynamic Systems, Measurement and Control

**LIST OF PUBLICATIONS:**

**International Peer Reviewed Journals:**

**2 0 1 8**

1. Suresh Jadhav, G. D. Thakre and **Satish C. Sharma**. "Numerical modeling of elastohydrodynamic lubrication of line contact lubricated with micropolar fluid." Journal of the Brazilian Society of Mechanical Sciences and Engineering 40.6:326, **2018**.
2. **Satish C. Sharma** and Chandra B. Khatri, “Electro-rheological fluid lubricated textured multi-lobe hole-entry hybrid journal bearing system”, Journal of Intelligent Material Systems and Structures, 29.8: 1600-1619, **2018**.
3. Vivek Kumar, **Satish C.Sharma,** “Dynamic characteristics of compensated hydrostatic thrust pad bearing subjected to external transverse magnetic field”, Acta Mechanica, 229.3: 1251-1274, **2018**.
4. Saurabh K. Yadav, Arvind K. Rajput, Nathi Ram and **Satish C. Sharma**, “A direct numerical approach to compute the nonlinear rotordynamic coefficient of the non-circular gas journal Bearing”, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 232.4 : 453-468, **2018**.
5. Saurabh K. Yadav, Arvind K. Rajput, Nathi Ram and **Satish C. Sharma**, "A novel technique to compute static and dynamic performance characteristics of aerostatic thrust bearing" Industrial Lubrication and Tribology 70.1 : 84-96, **2018**.
6. Vivek Kumar, **Satish C. Sharma,** “Finite element method analysis of hydrostatic thrust pad bearings operating with electrically conducting lubricant”,  Part J: Journal of Engineering Tribology, **2018**. DOI: 1350650117753530.
7. Chandra B. Khatri and **Satish C. Sharma**, "Analysis of textured multi-lobe non-recessed hybrid journal bearings with various restrictors", International Journal of Mechanical Sciences*,* 145 : 258-286, **2018.**
8. Krishkant Sahu, **Satish C. Sharma,** “A study on performance of slot-entry hybrid journal bearing considering of effect of surface irregularities”,  Industrial Lubrication and Tribology, **2018**. (**DOI:** [10.1108/ILT-09-2017-0264](https://doi.org/10.1108/ILT-09-2017-0264))

**2 0 1 7**

1. Arvind K. Rajput, Saurabh K. Yadav and **Satish C. Sharma**. “Effect of geometrical irregularities on the performance of a misaligned hybrid journal bearing compensated with membrane restrictor" Tribology International 115: 619-627, **2017**.
2. Chandra B. khatri and **Satish C. Sharma**, “Performance of two-lobe non-recessed hybrid journal bearing system under consideration combined influence of textured surface and couple stress lubricant”, Mechanics and Industry, 8.6: 603-623, **2017**.
3. **Satish C.Sharma** and Prashant B.Kushare, “Nonlinear Transient Response of Rough Symmetric Two Lobe Hole Entry Hybrid Journal Bearing System” Journal of Vibration and Control, 23 (2): pp. 190-219 ,**2017**.
4. Chandra B. Khatri and **Satish C. Sharma**, “Influence of couple stress lubricant on the performance of textured two-lobe slot-entry hybrid journal bearing system”, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 231(3). pp. 366-384, **2017.**
5. Vivek Kumar, **Satish C.Sharma,** “ Combined Influence of Couple Stress Lubricant, Recess Geometry and method of compensation on the performance of Hydrostatic circular Thrust pad Bearing”, Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 231 (6): pp. 716-733, **2017.**
6. Dharmendra jain and **Satish C.Sharma,**  "Dynamic analysis of a 2-lobe geometrically imperfect journal bearing system." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology231.7: 934-950, **2017.**
7. Dharmendra jain and **Satish C.Sharma,** “Combined influence of couple Stress lubricant and geometric inperfection of journal on the performance of Membrane Compansated Two-lobe Hybrid Journal Bearing”,International Journal of Surface Science and Engineering, 11.3 : pp. 191-224, **2017**.
8. Chandra B. khatri and **Satish C. Sharma**, “Behaviour of two-lobe hole-entry hybrid journal bearing system under the combined influence of textured surface and micropolar lubricant”, Industrial Lubrication and Tribology, 69.6: 844-862, **2017.**
9. Vivek Kumar, **Satish C.Sharma,** “ Performance of Annular Recessed Hydrostatic Tilted Thrustpad Bearing Operating with Couple Stress Lubricant”, International Journal of Surface Science and Engineering, 11.4: 344-369, **2017.**

**2 0 1 6**

1. Thakre, G. D., **Sharma, S. C.**, Harsha, S. P., & Tyagi, M. R. “A theoretical study of ionic liquid lubricated μ-EHL line contacts considering surface texture”, Tribology International, 94, 39-51, **2016.**
2. **Sharma, Satish C**., and Saurabh K. Yadav. "A comparative study of full and partial textured hybrid orifice compensated circular thrust pad bearing system." Tribology International 95 : 170-180, **2016**.
3. Khatri, Chandra B., and **Satish C. Sharma**. "Influence of textured surface on the performance of non-recessed hybrid journal bearing operating with non-Newtonian lubricant." Tribology International 95: 221-235, **2016**.
4. Arvind K Rajput and **Satish C Sharma**, “Combined influence of geometric imperfections and misalignment of journal on the performance of four pocket hybrid journal bearing.” Tribology International 97:59-70, **2016.**
5. Saurabh Kumar Yadav and **Satish C. Sharma**, “Performance of hydrostatic textured thrust bearing with supply holes operating with non-Newtonian lubricant." Tribology Transactions 59.3 : 408-420, **2016.**
6. Harak, S.S., **Sharma, S.C**., Harsha, S.P., Dynamic Analysis of Draft Gear and Draft Pad of Freight Wagon Due To Localized Defects using FEM, International Journal of Acoustics and Vibration, 21.3: 281-291, **2016**.
7. Yadav, Saurabh K., and **Satish C. Sharma**. "Finite element analysis of tilted thrust pad bearings of various recesses shapes considering thrust pad flexibility." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 230.7: 872-893, **2016**.
8. Chandra B. Khatri and **Satish C. Sharma**, “Performance of 180º partial hole-entry hybrid journal bearing considering the combined influence of surface roughness and non-Newtonian behaviour of lubricant”, International Journal of Surface Science and Engineering, 10.6 : 527-558, **2016**.

**2 0 1 5**

1. **Satish C Sharma** and Prashant B. Kushare, “Two lobe non-recessed roughened hybrid journal bearing-A comparative study”, Tribology International, 83:pp.51-58, **2015.**
2. Dharmendra jain and **Satish C.Sharma,** “Two-lobe geometrically imperfect hybrid journal bearing operating with power law lubricant”, Proceedings IMechE, Part J: Journal of Engineering Tribology, 229.1, pp. 30-46, **2015.**
3. Thakre, Gananath D., **Satish C. Sharma**, S. P. Harsha, and M. R. Tyagi. "A parametric investigation on the microelastohydrodynamic lubrication of power law fluid lubricated line contact." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 229.10: 1187-1205, **2015**.
4. Dharmendra jain and **Satish C.Sharma,** “ Combined influence of geometric irregularities of journal and turbulence on the performance of four-lobe hybrid journal bearing." Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology 229.12: 1409-1424, **2015.**
5. Kanoje, Nagvendra Kumar, **Satish C. Sharma**, and Suraj P. Harsha. "Subsurface crack propagation with different inclusion under a wheel–flat LEFM analysis using dynamics conditions." International Journal of Vehicle Noise and Vibration 11.1,pp : 1-17, **2015**.
6. Prashant B. Kushare and **Satish C.Sharma**, "Influence of wear on the performance of 2-lobe slot entry hybrid journal bearings" Mechanics & Industry, 16.5: 502, **2015**.
7. Kushare, Prashant B., and **Satish C. Sharma,** "A study of 2-lobe symmetric hole entry hybrid journal bearing operating with non-Newtonian lubricant considering thermal effects." Tribology International 92: 567-576, **2015.**

**2 0 1 4**

1. Saurabh Kumar Yadav and **Satish C Sharma,** “Performance of hydrostatic tilted thrust pad bearings of various recess shapes operating with Non-Newtonian lubricant”, Finite Elements in Analysis and Design 87, pp. 43-55, **2014.**
2. Arvind K. Rajput,and **Satish C Sharma,** “Stability of a Constant Flow Valve Compensated Multirecess Conical Hybrid Journal Bearing Operating with Micropolar Lubrican”, Lubrication Science 26.5, pp. 347-362, **2014.**
3. **Satish C Sharma** and Saurabh Kumar Yadav, “Performance analysis of a fully textured hybrid circular thrust pad bearing system operating with non-Newtonian lubricant”Tribology International, **77**: pp. 50-64,**2014.**
4. Gananath D. Thakre, **Satish C. Sharma,** S.P. Harsha and M.R. Tyagi, “Tribological failure analysis of gear contacts of Exciter Sieve gear boxes” Engineering Failure Analysis, 36: pp.75-91, **2014.**
5. Arvind K Rajput and **Satish C Sharma,** “A study of capillary-compensated geometrically imperfect six-pocket hybrid journal bearing of various geometric shapes of recess” Proceedings IMechE, Part J: Journal of Engineering Tribology; 228(2): pp. 170-186, **2014**.
6. Prashant B.Kushare and **Satish C.Sharma**, “Nonlinear Transient Stability Study of Two Lobe Symmetric Hole Entry Worn Hybrid Journal Bearing Operating With Non-Newtonian Lubricant” Tribology International, 69:pp. 84-101, **2014**.
7. Nathi Ram and **Satish C. Sharma**, "Influence of Wear on the Performance of Hole-Entry Hybrid Misaligned Journal Bearing in Turbulent Regime", Industrial Lubrication and Tribology, Vol. 66 (4), **2014.**
8. Prashant B.Kushare and **Satish C.Sharma**, “Surface roughness effect on the Performance of 3-lobe symmetric hole entry hybrid journal bearings”, Applied Mechanics and Materials Vol. 592, pp. 1190-1194, **2014**.
9. Yadav, Saurabh Kumar, and **Satish C. Sharma**. "Performance comparison of partial and full textured thrust bearing operating with non-Newtonian lubricant." Applied Mechanics and Materials. Vol. 592, pp. 1376-1380, **2014**.
10. Nagvendra kumar kanoje, **Sharma, Satish C.**, and S. P. Harsha. "EPFM Analysis of Subsurface Crack Beneath a Wheel Flat Using Dynamic Condition." *Procedia Materials Science* 6, pp: 43-60, **2014**.
11. Kanoje, Nagvendra Kumar, **Satish C. Sharma**, and S. P. Harsha. "Wheel-rail and wheel-flat as a coupled system: Contact dynamics modeling with finite element analysis." *Journal of Coupled Systems and Multiscale Dynamics* 2.1, pp: 20-27, **2014**.
12. Harak, S. S., **S. C. Sharma**, and S. P. Harsha. "Structural dynamic analysis of freight railway wagon using finite element method." *Procedia Materials Science*6, pp: 1891-1898, **2014**.

**2 0 1 3**

1. Prashant B Kushare and **Satish C Sharma**, “A study of two lobe non recessed worn journal bearing operating with non-Newtonian lubricant”, Proceedings IMechE, Part J: Journal of Engineering Tribology;227(12): pp. 1418-37, **2013**.
2. **Satish C. Sharma**, Saurabh K. Yadav, “Performance of hydrostatic circular thrust pad bearing operating with Rabinowitsch fluid model”, Proceedings IMechE, Part J: Journal of Engineering Tribology; 227(11): pp. 1272-84, **2013**.
3. **Satish C. Sharma**, Arvind K. Rajput,” Effect of geometric imperfections of journal on the performance of micropolar lubricated 4-pocket hybrid journal bearing,” Tribology International, Vol . 60, pp. 156–168, **2013.**
4. Nathi Ram, **Satish C. Sharma,** “A Study of Misaligned Hole-Entry Worn Journal Bearing Operating In Turbulent Regime”, Industrial Lubrication and Tribology. 65(2), 2013, pp.108-118.
5. P.K. Kankar, **Sharma C. Satish** and S.P. Harsha, “Fault diagnosis of rolling element bearing using cyclic autocorrelation and wavelet transform”, [Neurocomputing](http://www.sciencedirect.com/science/journal/09252312), 110, 2013, pp.9-17.
6. Arvind K. Rajput, **Satish C. Sharma**, “Analysis of externally pressurized multirecess conical hybrid journal bearing system using micropolar lubricant,” IMechE (J Engg. Tribology),Vol. 227(9) **2013,** pp. 943-961.

**2 0 1 2**

1. J. Stahlmann,E. Rajasekhar Nicodemus and **Satish C. Sharma**, P. Groche, “Surface roughness evaluation in FEA simulations of bulk metal forming process”, WEAR, 288, pp. 78-87, **2012.**
2. **Satish C. Sharma**, Vikas M. Phalle, and S. C. Jain, “Performance Analysis of a 2-Lobe Worn Multirecess Hybrid Journal Bearing System Using Different Flow Control Devices,” Tribology International, vol. 52, pp. 101-116, **2012.**
3. Nathi Ram, **Satish C. Sharma**, “Analysis of Orifice Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing operating with Micropolar Lubricants”, Tribology International, vol. 52, pp. 132-143, **2012.**
4. **Satish C. Sharma,** Arvind K. Rajput, “Influence of Micropolar Lubrication on the Performance of 4-Pocket Capillary Compensated Conical Hybrid Journal Bearing” Advances in Tribology, Volume 2012 Article ID 898252, **2012**, pp-1-18.
5. Arvind K. Rajput, **Satish C. Sharma,** Marut Shukla And Souvik Roy “A parametric study of S- tube Coriolis mass flow meter”, Sensors & Transducers, Vol.142, Issue 7, **2012**, pp-118-129.
6. **Satish C. Sharma**, Vikas M. Phalle, and S. C. Jain, "Combined Influence of Wear and Misalignment of Journal on the Performance Analysis of 3-Lobe Three-Pocket Hybrid Journal Bearing Compensated with Capillary Restrictor," ASME Journal of Tribology, Vol.134, 011703**,2012.**
7. E. Rajasekhar Nicodemus and **Satish C. Sharma**, “Performance Characteristics of Micropolar Lubricated Membrane-Compensated Worn Hybrid Journal Bearings”, Tribology Transactions, Vol. 55, pp. 59 -70, **2012.**
8. **K.M. Jagadeesha, T. Nagaraju, Satish C. Sharma**, and S. C. Jain, “3D Surface Roughness Effects on Transient Non-Newtonian Response of Dynamically Loaded Journal Bearings”, Tribology Transactions, Vol. 55, pp. 32 -42, **2012.**
9. P.K. Kankar, **Sharma C. Satish** and S.P. Harsha, “Vibration Based Performance Prediction of Ball Bearings caused by Localized Defects”, Nonlinear Dynamics, 69.3 : 847-875, **2012.**
10. P.K. Kankar, **Sharma C. Satish** and S.P. Harsha, “Nonlinear Vibration Signature Analysis of a High Speed Rotor Bearing System due to Race Imperfection”, J. of Computational and Nonlinear Dynamics, Vol. 7, No. 1, pp. 011014-29, **2012**
11. Pravin P. Patil, **Satish C. Sharma** and S.C. Jain, “Response Surface Modeling of Vibrating Omega Tube (Copper) Electromechanical Coriolis Mass Flow Sensor", Expert Systems with Applications, vol.39, pp.4418-4426, **2012**.
12. Pravin P. Patil, **Satish C. Sharma** and S.C. Jain, “Performance Evaluation of a Copper Omega Type Coriolis Mass Flow Sensor with an Aid of ANFIS Tool", Expert Systems with Applications, vol.39, pp.5019-5024, **2012**.
13. **Satish C. Sharma**, Vikas M. Phalle, S.C.Jain, “Performance of 2-Lobe Multirecess Constant Flow Valve Compensated Hybrid Journal Bearing by Considering Wear”, Industrial Lubrication and Tribology. 64(3), **2012**, pp.171-181.
14. Unnati A Joshi, **Satish C Sharma**, S. P. Harsha, “Effect of Carbon Nanotube Orientation on the Mechanical Properties of Nano Composites”, Composites Part B: Engineering, Elsevier Publishers, 43( 4) **2012** pp. 2063-71**.**
15. Anand Y Joshi, **Satish C Sharma**, S.P.Harsha, “Chaotic Response Analysis of Single Walled Carbon Nanotube due to Surface Deviations” NANO, 7(2) **2012**, pp. 1250008-1-10.
16. Unnati A Joshi**,** **Satish C Sharma**, S.P. Harsha, Influence of Dispersion and Alignment of Nanotubes on the Strength and Elasticity of Carbon Nanotubes Reinforced Composites, ASME Journal of Nanotechnology in Engineering and Medicine, American Institute of Physics2(4) **2012.**
17. Anand Y Joshi, **Satish C Sharma**, S. P. Harsha, “Nonlinear Dynamic Analysis of Single walled carbon Nanotube based mass sensors due to surface deviations”, ASME Journal of Nanotechnology in Engineering and Medicine, American Institute of Physics, **2(4), 2012.**

**2 0 1 1**

1. **Satish C. Sharma,** Nathi Ram, “Influence of Micropolar Lubricants on the Performance of Slot-Entry Hybrid Journal Bearing”, **Tribology International, Vol.44, No.12, pp. 1852-1863, 2011**.
2. R.K. Gautam, S. Ray, **Satish C. Sharma**, S. C. Jain and R Tyagi, “Dry Sliding Wear behavior of hot forged and anneled Cu-Cr-graphite in-situ Composites,” WEAR, Vol.271, pp. 658-664, **2011.**
3. **Satish C. Sharma,** and E. Rajasekhar Nicodemus, and Nathi Ram, “A study of misaligned micropolar lubricated membrane compensated hybrid journal bearing,” ASME Journal of Tribology, Vol.133, pp.031703-031709, **2011.**
4. **Satish C. Sharma**, Vikas M. Phalle, S.C.Jain, “Influence of Wear on The Performance of a Multirecess Conical Hybrid Journal Bearing Compensated With Orifice Restrictor, Tribology International, Vol. 44(12), pp. 1754-1764, 2011.
5. E. Rajasekhar Nicodemus, **Satish C. Sharma**, “Orifice Compensated Multirecess Hydrostatic/Hybrid Journal Bearing System of Various Geometric Shapes of Recess Operating with Micropolar Lubricant”, Tribology International, Vol.44,No.3, pp.284-296,**2011**.
6. **Satish C. Sharma**, Vikas M. Phalle, S.C.Jain, “Performance Analysis of a Multirecess Capillary Compensated Conical Hydrostatic Journal Bearing”, Tribology International, Vol.44, No.5, pp.617-626, **2011**.
7. Vikas M. Phalle, **Satish C. Sharma**, S.C.Jain, “Influence of Wear on the Performance of a 2-lobe Multirecess Hybrid Journal Bearing System Compensated with Membrane Restrictor”, Tribology International, Vol.44,No.4, pp.380-395,**2011**.
8. Kankar P.K., **Sharma Satish C.** and Harsha S.P., “Fault Diagnosis of Ball Bearings Using Machine Learning Methods”, Expert Systems with Applications, Vol. 38, No. 3, , pp. 1876-1886, **2011.**
9. Kankar P.K., **Sharma Satish C.** and Harsha S.P., “Fault Diagnosis of High Speed Rolling Element Bearings Due to Localized Defects using Response Surface Method”, ASME Journal of Dynamic Systems, Measurement and Control, Vol. 133, No. 2, pp.031007-1 to 031007-14, **2011**,
10. Unnati A Joshi, **Satish C Sharma**, S.P. Harsha, “Analysis of Elastic Properties of Carbon Nanotube Reinforced Nano Composites with Pinhole Defects”, Computational Materials Science, Vol. 50, Issue 11, **2011,** 3245-3256, Elsevier Publishers.
11. Unnati A Joshi, **Satish C Sharma**, S. P. Harsha, “Effect of Pinhole Defects on the Elasticity of Carbon Nanotube Based Nanocomposites”, ASME Journal of Nanotechnology in Engineering and Medicine, Vol. 2, Issue 1, **2011,** 011003-1-7, American Institute of Physics.
12. Unnati A Joshi, **Satish C Sharma**, S. P. Harsha, “Modelling and analysis of mechanical behavior of carbon nanotube reinforced composites”, Proceedings of IMechE, Part N: Journal of Nanoengineering and Nanosystems, Vol. 225, Issue 1, **2011.**
13. R.K. Gautam, S. Ray, **Satish C. Sharma**, S. C. Jain and R Tyagi, “Dry Sliding Wear behavior of hot forged and anneled Cu-Cr-graphite in-situ Composites,” WEAR, Vol.271, pp. 658-664, **2011.**
14. Anand Y Joshi**, Satish C Sharma**, S. P. Harsha, “Zeptogram Scale Mass sensing using Single Walled Carbon Nanotube Based Biosensors”, Sensors & Actuators : A. Physical, Vol. 168, Issue 2, pp. 275-280, **2011**.
15. Unnati A Joshi, **Satish C Sharma,** S.P. Harsha, “Effect of waviness on the Mechanical Properties of Carbon Nanotube based Composites”, Physica E: Low Dimensional systems & Nanostructures, Vol. 43, Issue 8, pp. 1453-1460, **2011**.
16. Kankar P.K., **Sharma Satish C**. and Harsha S.P., “Rolling Element Bearing Fault Diagnosis Using Wavelet Transform”, Neurocomputing, Vol. 74, Issue 10, pp. 1638-1645, **2011**.
17. Anand Y Joshi, S. P. Harsha, **Satish C Sharma**, “Effect of chirality and atomic vacancies on dynamics of nano resonator based on SWCNT”, Sensor Review, Vol.31(1), pp.47-57,**2011**.
18. Anand Y Joshi, S. P. Harsha, **Satish C Sharma**, “The Effect of Pinhole Defect on Vibration Characteristics of Single Walled Carbon Nanotube”, Physica E: Low Dimensional systems & Nanostructures, Vol. 43, Issue 5, pp.1040-1045, **2011**.
19. Kankar P.K., **Sharma Satish C**. and Harsha S.P., “Fault Diagnosis of Ball Bearings Using Continuous Wavelet Transform”, Applied Soft Computing, 11(2), pp .2300-2312, **2011**.
20. Kankar P.K., **Sharma Satish C**. and Harsha S.P., “Rolling Element Bearing Fault Diagnosis using Autocorrelation and Continuous Wavelet Transform”, Journal of Vibration and Control, 17(14), pp. 2081-2094, **2011**.

**2 0 1 0**

1. **Satish C. Sharma** , Pravin P. Patil , Ashish Vasudev, Satish C. Jain, “Performance Evaluation of an Indigenously Designed Copper (U) tube Coriolis Mass sensors”,Measurement**,** Vol. 43, No.9, pp1165-1172,**2010**.
2. E. Rajasekhar Nicodemus**, Satish C. Sharma,** “A Study of Worn Hybrid Journal Bearing System with Different Recess Shapes Under Turbulent Regimes”, ASME Journal of Tribology**.** Vol132 pp.41704-12, **2010**.
3. S. C. Jain, **Satish C. Sharma,** J.S. Basavaraja and Prashant Kushare, ‘Study of Two-Lobe Four Recessed Hybrid Journal Bearing’, Industrial Lubrication and Tribology, Vol 62, Issue 6, pp.332 – 340, **2010**.
4. Anand Y Joshi, Aashish Bhatnagar, S. P. Harsha, **Satish C Sharma**,” Vibration Response Analysis of Doubly Clamped Single Walled Wavy Carbon Nanotube Based Nano Mechanical Sensors” ASME Transactions, Journal of Nanotechnology in Engineering and Medicine, Vol.1(3),pp.031004-1-5,**2010**.
5. Anand Y Joshi, S. P. Harsha, **Satish C Sharma**, “Dynamic Behavior of Chiral Fixed Free Single Walled Carbon Nanotube Based Nano Mechanical Mass Sensors due to Atomic Vacancies” Proceedings of IMECH E, Part N: Journal of Nanoengineering and Nanosystems,Vol. 224(2),pp.45-56,**2010**.
6. E. Rajasekhar Nicodemus**, Satish C. Sharma,** “Influence of Wear on the Performance of Multirecess Hydrostatic Journal Bearing Operating with Micropolar Lubricant”, ASME Journal of Tribology 132, 021703-1 to 021703- 10, **2010**.
7. J. Sharana Basavaraja, **Satish C. Sharma,** Satish C. Jain “[A Study of misaligned electrorheological fluid lubricated hole-entry hybrid journal bearing](http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V57-4Y0D6CC-7&_user=1143371&_coverDate=06%2F30%2F2010&_rdoc=33&_fmt=high&_orig=browse&_srch=doc-info(%23toc%235779%232010%23999569994%231781107%23FLA%23display%23Volume)&_cdi=5779&_sort=d&_docanchor=&_ct=54&_acct=C000051781&_version=1&_urlVersion=0&_userid=1143371&md5=c0b67e43e2b8d2f083901f61f277e2ff)” Tribology International ,Vol. 43, Issues 5-6, Pages 859-1200, **2010**.
8. J.S. Basavaraja, Satish C. Sharma, and S.C. Jain, ‘The Study of ER Fluid Lubricated Misaligned Hole--Entry Hybrid Journal Bearing’, Tribology International, Vol.43,Issue 5-6, pp 1059-1064,2010.
9. Anand Y Joshi, **Satish C Sharma**, S. P. Harsha, “Analysis of Crack Propagation in Fixed Free Single Walled Carbon Nanotube under Tensile Loading Using XFEM”, ASME Transactions, Journal of Nanotechnology in Engineering and Medicine, 1, (4), **2010**, 041008-7.
10. Anand Y Joshi, S. P. Harsha, **Satish C Sharma** “Dynamic Analysis of a Clamped Wavy Single Walled Carbon Nanotube based Nano Mechanical Sensors”, ASME Transactions, Journal of Nanotechnology in Engineering and Medicine 1, (3), **2010**, 031007-1-7
11. Pravin P Patil, **Satish C. Sharma**, S.C. Jain, “Prediction Modeling of Coriolis Type Mass Flow Sensor Using Neural Network”, Instruments and Experimental Techniques,Vol.54(3),pp.435-439,**2010.**
12. Pravin P. Patil, **Satish C. Sharma**, S.C. Jain, “Development of (Aluminium) ‘U’ Tube type Vibration Based Electromechanical Mass Flow Sensor", Sensors & Transducers Journal, vol.123, issue 12, pp.60-68, Dec. **2010**.
13. S. C. Jain, **Satish C. Sharma,** J.S. Basavaraja and Prashant Kushare, ‘Study of Two-Lobe Four Recessed Hybrid Journal Bearing’, Industrial Lubrication and Tribology, Vol 62, Issue 6, pp.332 – 340, **2010**.
14. Anand Y Joshi, S. P. Harsha, **Satish C Sharma**, “Vibration Signature Analysis of Single Walled Carbon Nanotube Based Nano Mechanical Sensors”, Physica E: Low Dimensional Systems & Nanostructures, 42, (8), pp.2115-2123,**2010**.
15. Anand Y Joshi, Aashish Bhatnagar, S. P. Harsha, **Satish C Sharma**, “An Investigation of Mass Sensitivity of Fixed Free Single Walled Carbon Nanotube (SWCNT) Based Nano Mechanical Sensors”, Current NanoScience, 6(6), pp.598-603,**2010**.
16. Unnati A Joshi, Preeti Joshi, S.P. Harsha, **Satish C Sharma**, “Evaluation of the Mechanical Properties of CNT based Composites Using Hexagonal RVE,” ASME Transactions, Journal of Nanotechnology in Engineering & Medicine, 1(3) 031006-1-7,**2010**.

**2 0 0 9**

1. Kankar P.K., Harsha S.P., Kumar Pradeep and **Sharma Satish C**., “Fault Diagnosis of a Rotor Bearing System using Response Surface Method”, European Journal of Mechanics / A Solids, Vol. 28, **2009**, pp. 841-857.
2. Unnati A Joshi, **Satish C Sharma**, S.P. Harsha, “Effects of Pinhole defects on the elasticity of Carbon Nanotube based Nano-Composites” ASME Transactions, Journal of Nanotechnology in Engineering & Medicine, 2,1, 011003-1-7**.**
3. J.S. Basavaraja, Satish C. Sharma, and S.C. Jain, ‘Study of Misaligned Roughened Multi-Lobe Hybrid Journal Bearing’, Industrial Lubrication and Tribology, Vol.61, no.4,pp.220-227,2009.

**2 0 0 8**

1. R.K. Gautam, S. Ray, S.C. Jain and **Satish C. Sharma**, ‘Tribological Behaviour of (Cu–Cr–SiCp) In–Situ composite', WEAR, Vol. 265, pp. 902 – 912, **2008**.
2. J.S. Basavaraja, **Satish C. Sharma,** and S.C. Jain, ‘Performance of an Orifice Compensated Two Lobe Hole – Entry Hybrid Journal Bearing’, Advances in Tribology, Vol 2008, Article ID 871952, 10 pages, doi:10.1155/2008/871952, **2008**.

**2 0 0 7**

1. R.K. Awasthi, **Satish C. Sharma**, and S.C. Jain, 'Effect of Wear on the Performance of Non-Recessed Orifice Compensated Hybrid Journal Bearing', STLE Tribology Trans, Vol. 50, No. 3, pp. 361 – 373, **2007**.
2. T. Nagaraju, **Satish C. Sharma**, and S.C. Jain, 'Influence of Surface Roughnenss on Non-Newtonian Thermohydrostatic Performance of a Hole – Entry Hybrid Journal Bearing', ASME Jr. of Tribology, Vol. 129, No. 3, pp. 595 – 602, **2007**.
3. R.K. Awasthi, **Satish C. Sharma** and S.C. Jain, 'Performance of Worn Non – Recessed Hole – Entry Hybrid Journal Bearings,' Tribology International, Vol. 40, no.5, pp. 717 – 734, **2007**.

**2 0 0 6**

1. R.K. Awasthi, S.C. Jain, and **Satish C. Sharma**, 'Finite Element Analysis of Orifice Compensated Multiple Hole – Entry Worn Hybrid Journal Bearing', Finite Elements in Analysis and Design, Vol. 42, issues 14 – 15, pp. 1291 – 1303, **Oct. 2006**.
2. R.K. Awasthi, S.C. Jain, and **Satish C. Sharma**, 'A Simulation Study of Running in Wear Effect and its Influence on Average Flow Factors', STLE Tribology Transactions, Vol. 49, No. 3, pp. 427 – 438, **2006**.
3. T. Nagaraju, **Satish C. Sharma** and S.C. Jain, 'Study of Orifice Compensated Hole – Entry Hybrid Journal Bearing Considering Surface Roughness and Flexibility Effects', Tribology International, Vol. 39, No. 7, pp. 715 -–725, **2006**.
4. Vijay Kumar, **Satish C. Sharma** and S.C. Jain, 'On the Restrictor Design Parameter of Hybrid Journal Bearing for Optimum Rotordynamic Coefficients', Tribology International, Vol. 39, No.4, pp. 356 – 368, **2006**.

**2 0 0 5**

1. T. Nagaraju, **Satish C. Sharma**, and S.C. Jain, "The Stability Margin of Roughened Hole Entry Hybrid Journal Bearing System", STLE Tribology Transactions, Vol. 48, No.1, pp. 140-146, **2005**.

**2 0 0 4**

1. **Satish C. Sharma**, T Nagaraju, and S.C. Jain, "Performance of an Orifice Compensated Hole – Entry Hybrid Journal Bearing System Considering Surface Roughness and Thermal Effects", STLE Tribology Transactions, Vol. 47, No.4, pp. 557 – 556, **2004**.
2. Vijay Kumar, **Satish C. Sharma**, and S.C. Jain, " Stability Margin of Hybrid Journal Bearing : Influence of Thermal and Elastic Effects", ASME Journal of Tribology, Vol. 126, No. 3, pp. 630 – 634, **2004**.
3. Narendra Singh, **Satish C. Sharma**, S.C. Jain and Sanjeev Reddy, "Performance of Membrane Compensated Multirecess Hydrostatic / Hybrid Journal Bearing System Considering Various Recess Shapes", Tribology International, Vol. 37, No. 1, pp. 11 – 24, **2004**.

**2 0 0 3**

1. **Satish C. Sharma**, Vijay Kumar, S.C. Jain and T. Nagaraju, "Study of Hole – Entry Hybrid Journal Bearing System Considering Combined Influence of Thermal and Elastic Effects", Tribology International, Vol. 36, No. 12, pp. 903 – 920, **2003**.
2. Vijay Kumar, **Satish C. Sharma**, and S.C. Jain, "On the Stability Margin of Hole – Entry Hybrid Journal Bearing Considering Viscosity Temperature Variation", STLE Tribology Transactions, Vol. 46, No. 3, pp. 421 – 427, **2003**.
3. T. Nagaraju, **Satish C. Sharma** and S. C. Jain, ‘Performance of Externally Pressurized Non-Recessed Roughened Journal Bearing System Operating with Non-Newtonian Lubricant’, STLE Tribology Transactions, Vol.46, no.3, pp.404-413, **2003.**

**2 0 0 2**

1. **Satish C. Sharma,** T. Nagaraju and S. C. Jain,‘Combined Influence of Journal Misalignment and Surface Roughness on the Performance of Orifice Compensated Non-Recessed Hybrid Journal Bearing’, STLE Tribology Transactions, Vol.45, no.4,pp 457- 463,**2002**.
2. **Satish C. Sharma,** Vijay Kumar, S. C. Jain, T. Nagaraju and Giriraj Prasad, ‘Thermohydrostatic Analysis of Slot-Entry Hybrid Journal Bearing’, Tribology International,Vol. 35, no.9, pp 561-577, **2002**.
3. T. Nagaraju, **Satish C. Sharma** and S. C. Jain,‘ Influence of Surface Roughness Effects on Performance of Non-Recessed Hybrid Journal Bearings’, Tribology International,Vol. 35, no.7, pp 467-487, **2002**
4. **Satish C. Sharma,** S. C. Jain and D. K. Bharuka,‘ Influence of Recess Shape on the Performance of a Capillary Compensated Circular Thrust Pad Bearing’, Tribology International,Vol. 35, no.6, pp 347-356, **2002.**

**2 0 0 1**

1. **Satish C. Sharma**, S.C. Jain and N. Madhu Mohan Reddy, ‘A Study of Non-Recessed Hybrid Flexible Journal Bearings with Different Restrictors’, STLE Tribo., Transactions**,**Vol.44, No.2, pp. 310-317, **2001**.
2. **Satish C. Sharma**, P.L. Sah, S.C. Jain and R. Sinhasan, ‘Static and Dynamic Performance Characteristics of Orifice Compensated Hydrostatic Flexible Journal Bearings with Non-Newtonian Lubricants’, STLE Tribology Transactions, Vol.44, No.2, pp. 242-248, **2001**.
3. **Satish C. Sharma**, M. Bhattacharya, Mohd. Khaliquzzama, Amar Sapra, Lalit K. Khandelwal, Mohd. Saif and Rajiv Harbindu, ‘Development of a Mass Flow Meter Based on Coriolis Effect’, Int., Jr. Mech. Engg. , Edu.,(IJMEE, U.K.), Vol.29, No.2, pp.132-146, **2001.**

**2 0 0 0**

1. **Satish C. Sharma**, S.C. Jain and P.L Sah, ‘Effect of Non-Linear Behaviour of Lubricant and Bearing Flexibility on the Performance of Slot-Entry Journal Bearings’, Tribology International, Vol. 33, no. 7, pp. 507-517, **2000**.

**1 9 9 9**

1. **Satish C. Sharma**, S.C. Jain and N. Madhu Mohan Reddy, ‘Influence of Elastic Effects on the Performance of Slot-Entry Journal Bearings’**,** Tribology International, Vol.32, no.10, pp. 537-551, **1999.**
2. **Satish C. Sharma**, Vijay Kumar, S.C. Jain, R. Sinhasan and M. Subramanian, ‘A Study of Slot-Entry Hydrostatic/Hybrid Journal Bearing Using the FEM’, Tribology International, Vol.32, no.4, pp 185-196, **1999**.

**1 9 9 8**

1. **Satish C. Sharma** ,‘On the Application of Strain Gauges for a Structural Member Subjected to Complex Type of Loading’, Int. Jr. of Mechanical Engg. Education, (IJMEE,U.K.), Vol. 26, No.3, pp. 241-246, **1998**.
2. **Satish C. Sharma**, R. Sinhasan, S.C. Jain, N. Singh and S.K. Singh, ‘Performance of Hydrostatic/Hybrid Journal Bearings with Unconventional Recess Geometries’, STLE Tribology Transactions, Vol. 41, no.3, pp. 375-381, **1998**.

**1 9 9 7**

1. S.C. Jain, **Satish C. Sharma** and T. Nagaraju, ‘Misaligned Journal Effect in Liquid Hydrostatic Nonrecessed Journal Bearings’, WEAR,Vol. 210, pp. 67-75, **1997**.

**1 9 9 5**

1. **Satish C. Sharma**, S.C. Jain,R. Sinhasan and R. Shalia, ‘Comparative Study of the Performance of Six pocket and Four pocket Hydrostatic/Hybrid Flexible Journal Bearings’, Tribology International, Vol.28, No. 8,pp. 531-539,**1995**.

**1 9 9 3**

1. **Satish C. Sharma**, R. Sinhasan, and S.C. Jain, ‘An Elastohydrostatic Study of Hole-Entry Hybrid Flexible Journal Bearing with Capillary Restrictors’, Tribology International, Vol. 26, No.2, pp. 93-107, **1993**.

**1 9 9 2**

1. S.C. Jain, R. Sinhasan and **Satish C. Sharma**, ‘Analytical Study of Flexible Hybrid Journal Bearing System using Different Flow Control Devices’, Tribology International, Vol. 25, No.6, pp. 387-395, **1992**.
2. **Satish C. Sharma**, S.C. Jain and R. Sinhasan, ‘Performance Characteristics of Constant Flow Valve Compensated Multiple Hole Entry Hybrid Flexible Journal Bearings’, Periodica Polytechnica, Budapest (Hungary)., Vol. 36, No.1, pp.61-84, **1992**.
3. **Satish C. Sharma**, R. Sinhasan, and S.C. Jain, ‘Performance Characteristics of Multirecess Hydrostatic/Hybrid Flexible Journal Bearing with Membrane Type Variable Flow Restrictor Compensating Element’, WEAR, Vol. 152, pp.279-300, **1992**.

**1 9 9 1**

1. R. Sinhasan, **Satish C. Sharma** and S.C. Jain, ‘Performance Characteristics of Externally Pressurised Orifice Compensated Flexible Journal Bearing’, STLE Tribology Transactions, Vol. 34, No.3, pp. 465-471, **1991**.

**1 9 9 0**

1. **Satish C. Sharma**, R. Sinhasan and S.C. Jain, ‘Elastohydrostatic Analysis of Orifice Compensated Multiple Hole-Entry Hybrid Journal Bearings’, International Journal of Machine Tools and Manufacture, Vol. 30, No. 1, pp. 111-129, **1990**.

**1 9 8 9**

1. R.Sinhasan, **Satish C. Sharma** and S.C. Jain, ‘Performance Characteristics of Constant Flow Valve Compensated Multirecess Flexible Hydrostatic Journal Bearing’, WEAR, Vol. 134, pp. 335-356, **1989**.
2. Sinhasan, **Satish C. Sharma** and S.C. Jain, ‘Performance Characteristics of an Externally Pressurised Capillary Compensated Flexible Journal Bearing’, Tribology International, Vol. 22, No.4, pp. 283-293, **1989**.

**1 9 8 8**

1. R. Sinhasan, S.C. Jain and **Satish C. Sharma**, ‘A Comparative Study of Flexible Thrust pad Hydrostatic Bearings with different Restrictors’, WEAR, Vol. 121, pp. 53-70, **1988**.

**1 9 8 6**

1. R. Sinhasan, S.C. Jain and **Satish C. Sharma**, ‘Elastic Considerations in the Hydrostatic Lubrication of Capillary Compensated Thrust Bearings of Different Configurations’, WEAR, Vol. 3, No.1, pp. 41-62, **1986**.
2. R. Sinhasan, S.C. Jain and **Satish C. Sharma**, ‘Orifice Compensated Flexible Thrust Pad Bearings of Different Configurations’, Tribology International, Vol. 19, No. 5, pp. 244-252, **1986**.

**1 9 8 3**

1. R. Sinhasan, S.C. Jain and **Satish C. Sharma**, ‘Elastohydrostatic Lubrication of Capillary Compensated Thrust Pad Bearings’, WEAR, Vol. 91, pp. 131-147, **1983**.

National Journals

1. Vivek Gupta, V.H. Saran and **Satish C. Sharma,** “A novel technique to measure the rolling resistance of tyres using force transducer”,  Journal of The Institution of Engineers (India): Series C 96.3 (2015): 325-330.
2. R.K. Awasthi, **Satish C. Sharma**, and S.C. Jain, ‘Effect of Running-in Wear on the Performance Characteristics of a Hydrodynamic Journal Bearing System’ Indian Journal of Tribology, Vol.4,no.1,**Jan.-June 2009**,pp1-13.
3. J.S. Basavaraja, S.C. Jain , and **Satish C. Sharma**, ' Constant flow valve compensated Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid A Simulation Study of Rough Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid,' Indian Journal of Tribology,Vol.4, no1, **Jan.-June 2009**,pp.43-51.
4. Suren Kumar, Akhilesh Dwivedi, Sumit Wadhwa, and **Satish C. Sharma**, ‘Vision Based Lane Detection for Autonomous Navigation’ IURS Journal of Unmanned Robotic Vehicles and Intelligent System’ Vol. 1, Issue 1, pp. 97 – 100, S**ept. 2007**.
5. Vijay Kumar, **Satish C. Sharma**, S.C. Jain and T. Nagaraju, 'Comparative Performance of Hole-Entry Journal Bearing Operating with Different Restrictors', Journal of Institution of Engineering, IE(I) – Journal MC, Vol. 83, **October 2002**, pp. 116 – 123.
6. S.C. Jain, **Satish C. Sharma** and N. Ramesh Babu, ‘Performance Characteristics of Multirecess Hybrid Flexible Journal Bearing in Turbulent Regime’, Journal of Institution of Engineers (**India**), Vol. 81, Pt Mc/1, pp. 1-8, **May, 2000**.
7. P.L. Sah, **Satish C. Sharma**, S.C. Jain and R. Sinhasan, ‘A Study of Constant Flow Valve Compensated Multirecess Hydrostatic/Hybrid Flexible Journal Bearing Operating with Non-Newtonian Lubricants’, Journal of Institution of Engineers, Vol. 81, Pt Mc/2, pp. 84-92, **2000.**

**Abstracts Publication**

1. **Satish C. Sharma**, Vijay Kumar, S.C, Jain, R. Sinhasan and M. Subramanian, ‘A Study on Characteristics of Slot-Entry Journal Bearing Using the FEM’, Proceedings of World Tribology Congress, Abstracts of Papers, **Sept. 8-12, 1997** (**London**), pp. 426, MEP (**U.K.**).

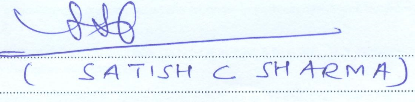
**Papers Published/ Presented In International Conferences**

1. **Sharma C. Satish** , and Chandra B. Khatri "Performance of textured 3-lobe slot-entry hybrid journal bearing system operating with electro-rheological (ER) lubricant " 73rd STLE Annual Meeting & Exhibition 2016, Minneapolis, (USA), May 20-24 , **2018.**
2. Vivek Kumar and **Sharma C. Satish** "Performance of hydrostatic thrust pad bearings operating with electrically conducting lubricant" 73rd STLE Annual Meeting & Exhibition 2016, Minneapolis, (USA), May 20-24 , **2018.**
3. **Satish C. Sharma**, Chandra B. Khatri, “Performance of textured two-lobe slot-entry hybrid journal bearing system operating with electro-rheological lubricant”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
4. Chandra B. Khatri, **Satish C. Sharma**, “A study on the performance of 3-lobe hole-entry hybrid journal bearing system under the combined influence of micropolar lubricant and textured surface”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
5. Krishnkant Sahu, **Satish C. Sharma**, “Performance Analysis of Geometrically Imperfect Slot Entry Hybrid Journal Bearing System”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
6. Saurabh Kumar Yadav, Nathi Ram, **Satish C. Sharma**, “Influence of non-Newtonian lubricant behavior on the performance of flexible rotor system supported by fluid film bearing”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
7. Vivek Kumar, **Satish C. Sharma**, “Dynamic characteristics of hydrostatic thrust pad bearing operating with micropolar lubricant”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
8. Nathi Ram, Saurabh Kumar Yadav, **Satish C. Sharma**, “Analysis of Asymmetric Slot-Entry Journal Bearing under Turbulent Regime”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
9. Prashant B. Kushare, **Satish C. Sharma**, “Performance of Non-Newtonian Lubricated Worn 2-Lobe Slot Entry Restrictor Bearing System”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
10. Suresh Jadhav , Gananath D. Thakre, **Satish C. Sharma**, “An Investigation on the Tribo-performance of Brass-on-Steel EHL Point Contacts”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
11. Abhishek Kumar, **Satish C. Sharma**, “Influence of surface waviness on the dynamic performance of circular hole-entry hybrid journal bearing system”, International Conference on Industrial Tribology (ICIT -2017), Kolkata, India, **2017.**
12. **Sharma C. Satish** , and Dharmendra Jain. "Effect of Geometrically Imperfect Journal and Recess Geometry on the Performance of Two Lobe/Circular 4 Pocket Hybrid Journal Bearing System." 71th STLE Annual Meeting & Exhibition 2016, Las, Vegas (USA), May 15-19 , **2016**
13. **Satish C. Sharma**, Saurabh K. Yadav, **“**Influence of tilt on the performance of circular trust pad bearing of various recess shapes**”** STLE 70th Annual Meeting & Exhibition 2015, Dallas, Texas(USA), May 17-21, **2015.**
14. Saurabh K. Yadav, **Satish C. Sharma,**  **“**Performance of full textured hybrid thrust bearing by considering the temperature variation in oil film**”** STLE 70th Annual Meeting & Exhibition 2015, Dallas, Texas(USA), May 17-21, **2015.**
15. Prashant B.Kushare and **Satish C.Sharma**, “Surface roughness effect on the Performance of 3-lobe symmetric hole entry hybrid journal bearings”, International Mechanical Engineering Congress (IMEC-2014), NIT Tiruchirappalli, India. Paper Abstract ID: IMEC 2014-G-015, June 13-15, **2014**.
16. **Satish C. Sharma**, Arvind K. Rajput, **“**Study of Geometrically Imperfect Multirecess Hybrid Journal Bearing System with different Pocket Geometries**”** STLE 68th Annual Meeting & Exhibition 2013, Lake Buena Vista, Florida. May 18-22, **2014.**
17. S. S. Harak, **Satish C. Sharma** and S. P. Harsha, Structural dynamic analysis of freight railway wagon using finite element method, Presented at 3rd International Conference on Materials Processing and Characterisation (ICMPC 2014), Hyderabad, India (March 2014).
18. Arvind K. Rajput, **Satish C. Sharma**, “Influence of geometrically imperfect misaligned journal on the performance of CFV compensated 4 pocket hybrid journal bearing”, International Conference on Advances in Tribology (ICAT -2014), NIT Calicut, India. pp. Feb. 21-24, **2014.**
19. Prashant B. Kushare and **Satish C.Sharma**, “Influence of Wear on the Performance Analysis of Non-Circular Non-Recessed Hybrid Journal Bearing Configurations”,International Conference on Advances in Tribology (ICAT-2014), NIT Calicut, India. Paper No.183, Feb. 21-24, **2014.**
20. Saurabh Kumar Yadav and **Satish C Sharma**, “Performance analysis of a partial textured hydrodynamic thrust bearing operating with non-Newtonian lubricant” International Conference on Advances in Tribology (ICAT-2014), NIT Calicut, India, 21-24 Feb, 2014.
21. Saurabh Kumar Yadav and **Satish C. Sharma**, “Combined influence of tilt on the performance of hybrid thrust bearing system operating with non-Newtonian Lubricant”, ASIATRIB-2014, Agra 17-20 Feb 2014.
22. **Satish C. Sharma**, Arvind K. Rajput, “A Study of Orifice compensated geometric imperfect four pocket hydrostatic Journal bearing Operating with Micropolar Lubricant”, ASIATRIB -2014, Hotel Jaypee Palace, Agra, (India). Paper Id- TSI914544, Feb. 17-20, **2014.**
23. Arvind K. Rajput,, **Satish C. Sharma**, “Effect of undulations of the journal on the performance of multi-recess conical hybrid journal bearing”, ASIATRIB -2014, Hotel Jaypee Palace, Agra, (India). Paper Id- TSI914545, Feb. 17-20, **2014.**
24. Prashant B.Kushare and **Satish C.Sharma** , “Performance of Two Lobe Hole Entry Worn Hybrid Journal Bearing System Operating with Non-Newtonian Lubricant”, ASIATRIB-2014, Hotel Jaypee Palace, Agra, (India). Paper Id- TSI914531, Feb. 17-20, **2014.**
25. **Satish C. Sharma** Arvind K. Rajput, “Influence of Geometric Irregularities of Journal on the Performance of Capillary Compensated Multirecess Hydrostatic Journal Bearing” STLE 68th Annual Meeting & Exhibition 2013, Detroit, Michigan (USA). Control ID: 1531772, May 07, **2013**
26. Arvind K. Rajput, **Satish C. Sharma,** “Stability of a Constant Flow Valve Compensated Multirecess Conical Hybrid Journal Bearing Operating with Micropolar Lubricant” ITS 2013, Lulea university of Technology, Lulea, Sweden, 19-21 March **2013**.
27. **Satish C. Sharma**, Ram Nathi, “Combined Influence of Surface roughness and Micropolar Lubricant on the Performance of Constant valve Compensated Hole-Entry Hybrid Journal Bearing”, International Conference on Industrial Tribology (ICIT-**2012**), Pune, India.TSI-812517.
28. Ram Nathi, **Satish C. Sharma**, “Influence of Couple Stress Lubricant on the Performance of Symmetric and Asymmetric Hole-Entry Hybrid Journal Bearing”, International Conference on Industrial Tribology (ICIT-**2012**), Pune, India.TSI-812518.
29. Vikas M. Phalle, **Satish C. Sharma,** “Influence Of Wear Depth Parameter on the Performance Of Four Pocket/Six Pocket Hybrid Conical Journal Bearing System”, International Conference on Industrial Tribology (ICIT-**2012**), Pune, India. TSI-812531.
30. Arvind K. Rajput, **Satish C. Sharma,** “A Study of Orifice Compensated 4-Pocket Conical Hydrostatic Journal Bearing operating with Micropolar Lubricant”, International Conference on Industrial Tribology (ICIT-**2012**), Pune, India. TSI-812572.
31. Prashant B. Kushare, **Satish C. Sharma**, “ Performance evalution of Two Lobe Multirecesss Worn Hybrid journal bearing operating under turbulent regime”, International Conference on Industrial Tribology (ICIT-**2012**), Pune, India.TSI-812598.
32. Saurabh K. Yadav,**Satish C. Sharma**, “ Study On The Influence of Operating Parameters On The Elastohydrodynamically Lubricated Gear Contacts”, International Conference on Industrial Tribology (ICIT-2012), Pune, India.TSI-812601.
33. **Satish C. Sharma**, Ram Nathi, “Influence of Couple Stress Lubricant on the Performance of Orifice Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing”, STLE/ASME 2012 International Joint Tribology Conference, IJTC2012, Westin Denver Downtown, Denver, Colorado. (USA), October 7-10, 2012, Paper No. IJTC2011-61087, **2012.**
34. Satish C. Sharma, Nathi Ram, “Influence of Micropolar Lubricants on the performance of an Orifice Compensated Rough Hole-Entry Hybrid Journal Bearing”, Proceedings of 67th STLE2012 Annual Meeting & Exhibition, St. Louis, Missouri (USA), May 6-10, Manuscript ID-1244039, 2012.
35. Nathi Ram, **Satish C. Sharma,** “Performance of Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing operating with Couple Stress Lubricant”, Proceedings of 67th STLE2012, Annual Meeting & Exhibition, St. Louis, Missouri (USA), May 6-10, Manuscript ID-1244032, **2012.**
36. Anand Y Joshi, **Satish C Sharma**, S.P.Harsha, “Analysis of Single walled Carbon Nanotubes with multiple defects”, Proceedings of the International conference on Fourth International conference on Structural Stability and Dynamics (ICSSD-2012), organized by Department of Structural Engineering, Malaviya National Institute of Technology (MNIT), Jaipur, January 4 – 6, **2012**, 996.
37. Vikas M. Phalle, **Satish C. Sharma** and S.C. Jain, “Influence of wear on the performance of a 2-lobe four-pocket hydrostatic journal bearing compensated with capillary restrictor,” Proc. of the 5th International Conference on Advances in Mechanical Engineering (ICAME-2011), S.V. National Institute of Technology, Surat, Gujarat, India, June 06-08 2011, pp.783-787,**2011.**
38. Nathi Ram, **Satish C. Sharma**, “Performance of a Constant Flow Valve compensated Non-Recessed Hole-Entry Hybrid Journal Bearing operating with Micropolar Lubricant”, STLE/ASME 2011 International Joint Tribology Conference, IJTC2011, Marriott Los Angeles, California (USA), October 24-26, Paper No. IJTC2011-61087, **2011.**
39. Nathi Ram, Devendra Sankla, Arvind K. Rajput and **Satish C. Sharma**, “Performance of an Orifice Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing Operating in Turbulent regime”, Proceedings of ASME 2011 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, IDETC/CIE-2011, Washington, DC (USA), August 28-31, **2011.**
40. Arvind K. Rajput and **Satish C. Sharma**, “A Parametric study of ‘S’ Shape Coriolis Mass flow meter”, Proc. Of 1st International conference for Materials and Applications for Sensors and Transducers (ICMAST-2011) Kos Island, Greece during May 13-17, **2011**.
41. Arvind K. Rajput and **Satish C. Sharma**, “An experimental study of ‘S’ Shape (copper) Coriolis Mass flow Sensor”, Proc. Of 5th International conference on Advances in mechanical engineering (ICAME-2011) SVNIT,Surat , Gujrat(India), June 06-08,**2011**.
42. Vikas M. Phalle, **Satish C. Sharma** and S.C. Jain, Influence of Wear on the Performance of a 2-Lobe Four-Pocket Hydrostatic Journal Bearing Compensated with Capillary Restrictor”,Proc. of the 5th International Conference on Advances in Mechanical Engineering (ICAME-2011), S.V. National Institute of Technology, Surat, Gujarat, India, June 06-08, **2011**
43. Nathi Ram, Devendra Sankla, **Satish C. Sharma**, “Performance of a Constant Flow Valve Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing Operating in Turbulent Regime”, STLE Annual Meeting, Atlanta, Georgia (USA), on **May 15-19, 2011**.
44. **Satish C. Sharma** and Nathi Ram, “Performance of an Orifice Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing Operating with Micropolar Lubricant”, STLE Annual Meeting, Atlanta, Georgia (USA), on **May 15-19, 2011**.
45. **Satish C. Sharma,** Vikas M. Phalle, and S. C. Jain**,** “Influence of Wear and Method of Compensation on the Performance of 2-Lobe Multirecess Hybrid Journal Bearing System”,STLE-2011, Hilton Atlanta,255 Courtland St Ne,Atlanta, Ga. (USA)**,** **May 15-19, 2011**.
46. P.K. Kankar, **Satish C. Sharma** and S.P. Harsha, Fault Diagnosis of Rolling Element Bearings Using Artificial Neural Networks and Self Organizing Maps Using Complex Morlet Wavelet, Proceedings of the 7th International Conference on Industrial Tribology, December 2-4, **2010**, Ispat Bhawan, Ranchi, India.
47. Nathi Ram, **Satish C. Sharma**and S. C. Jain**,** “A capillary compensated hole-entry hybrid misaligned journal bearing operating in turbulent regime”, 7th International Conference on Industrial Tribology ,ICIT-2010, Ispat Bhawan, Ranchi, India, Dec. 1-4, **2010**.
48. Nathi Ram, **Satish C. Sharma** and S. C. Jain**,** “Influence of journal misalignment and wear on the performance of constant flow valve compensated non-recessed hybrid journal bearing operating in turbulent regime”, Paper no: A065, 7th International Conference on Industrial Tribology ,ICIT-2010, Ispat Bhawan, Ranchi, India, Dec. 1-4, **2010**.
49. Vikas M. Phalle, **Satish C. Sharma** and S. C. Jain**,** “Performance characteristics of 3-lobe four-pocket hybrid journal bearing system compensated with orifice restrictor by considering the influence of wear”, Paper no: A064, 7th International Conference on Industrial Tribology, ICIT-2010, Ispat Bhawan, Ranchi, India, Dec. 1-4, **2010**.
50. **Satish C. Sharma** and E. Rajasekhar Nicodemus, “A comparative study of a multirecess hybrid worn journal bearing system operating in turbulence regime compensated with different flow control devices”, Proceedings of International joint tribology conference 2010, Paper no: 41027, San Francisco, Oct 18-20, **2010**.
51. **Satish C. Sharma,** Vikas M. Phalle and S. C. Jain, ‘Performance of Noncircular 2-Lobe Multirecess Constant Flow Valve Compensated Hybrid Journal Bearing by Considering Wear’, Proceedings of STLE Annual Meeting, Las Vegas, Nevada, on May 16-20, **2010.**
52. **Sharma Satish C.**, Nathi Ram, Jain S.C., “Combined Influence of Journal Misalignment and Wear on the performance of Orifice Compensated Non-Recessed Hybrid Journal Bearing in Turbulent Regime”, Accepted for Presentation in STLE Annual Meeting, Las Vegas, Nevada, on May 16-20, **2010.**
53. P.K. Kankar, S. P. Harsha and **Satish C. Sharma**, ‘A Comparative study on Bearing Faults Classification by ANN and SOM using Complex Morlet Wavelet’, IV European Conference on Computational Mechanics, Paris, France, May 16-21, **2010.**
54. P.K. Kankar, S. P. Harsha and **Satish C. Sharma**, ‘Vibration Monitoring of Localized defects in Rolling Element Bearings’, IV European Conference on Computational Mechanics, Paris, France, May 16-21, **2010.**
55. P. K. Kankar, **Satish C. Sharma** and S. P. Harsha, ‘Vibration based Fault Diagnosis of Rolling Element Bearings using Response Surface Method, 54th Congress of ISTAM (An International Meet), Netaji Subhas Institute of Technology, New Delhi,December 18-21, **2009.**
56. Anand Y. Joshi, **Satish C. Sharma** and S. P. Harsha, ‘Mass Sensitivity of Single Walled Carbon Nano-Tube Based Nano Mechanical Resonators’, 54th Congress of ISTAM (An International Meet), Netaji Subhas Institute of Technology, New Delhi,December 18-21, **2009.**
57. Pravin P Patil, **Satish C. Sharma,** Prabhakar Singh, S.C.Jain, “Finite Element Modeling of Vibration Based Mass Flow Sensors”,Proceedings of 54th Congress of ISTAM (An International Meet), Netaji Subhas Institute of Technology, New Delhi,December 18-21, **2009.**
58. Vikas M. Phalle, **Satish C. Sharma,** and S. C. Jain**,** ‘A Study of Noncircular 2-Lobe Multirecess Hydrostatic Worn Journal Bearing with Orifice Compensation’,Proceedings of 54th Congress of ISTAM (An International Meet), Netaji Subhas Institute of Technology, New Delhi,December 18-21, **2009.**
59. E. Vijaya Kumar, Vikas M. Phalle, **Satish C. Sharma** and S. C. Jain**,**  ‘Performance of 4-pocket capillary compensated worn hybrid journal bearing’ 3rd international Congress on Computational Mechanics and Simulation (ICCMS09) IIT-Bombay, Mumbai-400 076, INDIA ,December 1-5, **2009**.
60. Vijay Kumar E, Vikas M. Phalle, **Satish C. Sharma**, S.C. Jain, ‘Analysis of a worn Multirecess Hydroststatic Journal Bearing System’, Proceedings of ASME 2009 International Design Engineering Technical Conferences & Computers and information in Engineering Conference, Proceedings of IDETC/CIE-2009, August 30- Sept. 2, **2009**, San Diego, Californiia USA, Paper No. DETC 2009-86787.
61. Rakesh Kamra, S. H. Upadhyay, P.K. Kankar, S. C. Jain, Satish C. Sharma and S. P. Harsha, ‘ANN Based Fault Diagnosis of Rolling Element Bearings’, Proceedings of IUTAM Symposium on Emerging Trends in Rotor Dynamics’, Paper-31, March 23-26, 2009, Delhi, India.
62. P. K. Kankar, Kalyan Manohar B., Aashish B., **Satish C. Sharma** and S. P. Harsha, ‘Vibration Based Fault Diagnosis of Rolling Element Bearings using Artificial Neural Networks and Support Vector Machines’, Proceedings of Conference on Dynamics, Vibration and Control, August 10-15, **2009**, Chengdu, China.
63. Aashish Bhatnagar, P. K. Kankar, **Satish C. Sharma** and S. P. Harsha, ‘ANN Based fault classification of High speed ball bearings’, Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, August 30-September 2, **2009**, San Diego, California, USA.
64. Kalyan M. Bhavaraju, P. K. Kankar, **Satish C. Sharma** and S. P. Harsha, ‘Fault Diagnosis of Ball Bearings using Soft Computing’, Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, August 30-September 2, **2009**, San Diego, California, USA.
65. P. K. Kankar, **Satish C. Sharma** and S. P. Harsha, ‘Vibration Signature Analysis of a Rotor Bearing System using Response Surface Method’, Proceedings of the ASME 2009 International Design Engineering Technical Conferences & Computers and Information in Engineering Conference, August 30-September 2, **2009**, San Diego, California, USA.
66. Vijay Kumar E, Vikas M. Phalle, **Satish C. Sharma**, S.C. Jain, ‘Analysis of a worn Multirecess Hydroststatic Journal Bearing System’, Proceedings of ASME 2009 International Design Engineering Technical Conferences & Computers and information in Engineering Conference, IDETC/CIE-2009, August 30- Sept. 2, **2009**, San Diego, Californiia USA, Paper No. DETC 2009-86787.
67. J. S. Basavaraja, S. C. Jain, Satish C. Sharma, ‘Influence of ER Fluid Lubrication on the Performance of a Rough Hole-Entry Hybrid Journal Bearing System’, Proceedings of IUTAM Symposium on Emerging Trends in Rotor Dynamics, IIT Delhi, India, March 23-26, 2009.
68. R.K. Awasthi, Satish C. Sharma, and S.C. Jain, ‘Static Performance of Capillary Compensated Multiple Hole-Entry Hybrid Worn Journal Bearing in Turbulence Regime’ Proceedings of International Conference on Industrial Tribology (ICIT 2008) New Delhi, Nov. 6-8, 2008.
69. J.S. Basavaraja, Satish C. Sharma, and S.C. Jain, ‘The Study of ER Fluid Lubricated Misaligned Hole--Entry Hybrid Journal Bearing’, 2nd InternationalConference on Advanced Tribology 2008, National Singapore University, Singapore, Dec. 3-5, 2008.
70. S. P. Harsha and Satish C. Sharma, “Nonlinear Dynamics of High Speed Unbalanced Rotor Supported on Rolling Element Bearings due to Waviness”, Proceedings of International Conference on Industrial Tribology (ICIT 2008), New Delhi, Nov. 6-8, 2008.
71. J.S. Basavaraja, S.C. Jain and Satish C. Sharma, ‘Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid’, Proceedings of International Conference on Industrial Tribology (ICIT 2008), New Delhi, Nov. 6-8, 2008.
72. S.C. Jain, J.S. Basavaraja and Satish C. Sharma, ‘Performance of a Misaligned Two Lobe Hole-Entry Hybrid Journal Bearing’, Proceedings of International Conference on Industrial Tribology (ICIT 2008), New Delhi, Nov. 6-8, 2008.
73. Satish C. Sharma, J.S. Basavaraja and S.C. Jain, 'A Comparative Study on the Performance of Circular, Two-Lobe and Three-Lobe Hole-Entry Hybrid Journal Bearing', Proceedings of International Conference on Industrial Tribology (ICIT 2008), New Delhi, Nov. 6-8, 2008.
74. J.S. Basavaraja, Satish C. Sharma, and S.C. Jain, ‘The Effect of Geometry on the Performance of the Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid’, Proc of 11th Conference on Electrorheological Fluids and Magnetorheological Suspensions, Technical University Dresden, Germany, Aug. 25-29, 2008.
75. J.S. Basavaraja, S.C. Jain and Satish C. Sharma, ‘A Study of Smart Fluid Lubricated Non-Recessed Hybrid Journal Bearing’, Presented at Fifth ISSS International Conference on Smart Materials, Structures and Systems’, IISc Bangalore, July 24-26, 2008, Paper No. 81.
76. J.S. Basavaraja, S.C. Jain and Satish C. Sharma, ‘The Effect of Journal Misalignment on the Performance of Non-Recessed Hybrid Journal Bearing Lubricated With ER Fluid’, Proceedings of Twelths Nonlinear Vibrations, Dynamics, and Multibody Systems, June 1-5, 2008, Virginia Tech, Blacksburg, VA(USA).
77. J.S. Basavaraja, Satish C. Sharma, and S.C. Jain, ' A Simulation Study of Rough Hole-Entry Hybrid Journal Bearing Lubricated with ER Fluid,' ICAME Conference , IISc Bangalore, July 2-4, 2008.
78. K. Jagadeesha, T. Nagaraju, Satish C. Sharma, and S.C. Jain, ‘Transient Non – Newtonian Thermohydrodynamic Analysis of a Dynamically Loaded Journal Bearing with 3D Surface Roughness Effects’, Proc. of 63rd STLE Annual Meeting, Cleaveland Ohio, USA, May 18 – 22, 2008.
79. Satish C. Sharma, S.C. Jain, J.S. Basavaraja, and Neeraj Sharma, ‘Combined Influence of Pocket Size and Journal Misalignment on the Performance of Hole – Entry Hybrid Journal Bearing System’, Proc. of 63rd STLE Annual Meeting, Cleaveland Ohio, USA, May 18 – 22, 2008, Abstract ID No. 393906.
80. S.C. Jain, Satish C. Sharma, J.S. Basavaraja and Pranshat Kushare, ‘A Study of Two Lobe Four Recessed Compensated Hybrid Journal Bearing System’, Proc. of 63rd STLE Annual Meeting, Cleaveland Ohio, USA, May 18 – 22, 2008, Abstract ID No. 393860.
81. T. Nagaraju, Sharana Basavaraja J., S.C. Jain, and Satish C. Sharma, 'A Study of Orifice Compensated Multilobe Hole – Entry Hybrid Journal Bearing', Proc. of 21st Biennial Conference on Mechanical Vibration and Noise (IDETC 2007), Las Vegas, Nevada, USA, September 04 -–07, 2007, Paper No. 35923.
82. Prashant Kushare, Satish C. Sharma, S.C. Jain and Sharana Basavaraja J., ‘Performance of Two Lobe Multirecess Hybrid Journal Bearing Compensated With Capilary Restrictor', Proc. of STLE/ASME Internaitonal Joint Tribology Conference (IJTC2007), San Diego, California, USA, October 22 – 24, 2007, Paper No. 44433.
83. Jagadeesha K.M., Nagaraju T., Satish C. Sharma, and S.C. Jain, 'Transient Non – Newtonian Analysis of a Rough Journal Bearing', International Conference on Industrial Tribology, IISc Bangalore, Nov. 30 – Dec. 02, pp. 672 - 680, 2006.
84. Paras Kumar, Satish C. Sharma, and S.C. Jain, 'A Study on the Performance of a TCF Multirecess Hydrostatic/Hybrid Journal Bearing', International Conference on Industrial Tribology, IISc Bangalore, Nov. 30 – Dec. 02, 2006, pp. 688 - 703, 2006.
85. Awasthi R.K., Satish C. Sharma, and S.C. Jain, 'Effect of Turbulence on the performance of non – Recessed Hole Entry Hybrid Journal Bearing System', International Conference on Industrial Tribology, Nov. 30 – Dec. 02, 2006, IISc Bangalore, pp. 146 – 153, 2006.
86. Sharana Basavaraja J., S.C. Jain, and Satish C. Sharma, 'Performance of a Multilobe Hole –Entry Hybrid Journal Bearing', International Conference on Industrial Tribology, Nov. 30 – Dec. 02, 2006, IISc Bangalore, pp. 135 – 146, 2006.
87. T. Nagaraju, Satish C. Sharma, and S.C. Jain, 'Influence of Surface Roughness on Non – Newtonian Thermohydrostatic Performance of Hole – Entry Hybrid Journal Bearing', Proceedings of IJTC, Oct. 23 – 25, San Antonio, Texas, 2006, (U.S.A.) Paper No. : IJTC: 12101.
88. R.K. Awasthi, Satish C. Sharma, and S.C. Jain, 'Effect of Wear on the Performance of Non – Recessed Orifice Compensated Hybrid Journal Bearing', Proceedings of Published in 61st STLE Annual Meeting , Calgary, Canada, May 7-11, 2006, Paper No. : AM (NP)-06-01.
89. Vijay Kumar, Satish C. Sharma and S.C. Jain, “Journal Motion Simulation of Hybrid Journal Bearing Considering Viscosity Variation due to Temperature Change”, Proceedings of IMECE 2005, Proceedings of 2005 ASME International Mechanical Engineering Congress and Exposition, Nov. 5-11, 2005 Orlando, Florida, U.S.A.
90. R.K. Awasthi, Satish C. Sharma and S.C. Jain, 'Influence of Grid on Average Flow Factors for Isotropic Surface Roughness in Hydrodynamic Lubrication', Proceedings of International Conference on Industrial Tribology, ICIT – 04, Mumbai, Dec. 15 – 18, 2004, pp. 337 – 343.
91. R.K. Awasthi, S.C. Jain and Satish C. Sharma, 'Code Development for the Analysis a Finite Journal Bearing System using Matlab', Proceedings of International Conference on Industrial Tribology, ICIT – 04, Mumbai, Dec. 15 – 18, 2004, pp. 501 – 507.
92. M. Bhasker Rao, Satish C. Sharma, S.C. Jain and R.K. Awasthi, 'Influence of Geometric Shape of Recess on the Performance of a Six – Pocket Hybrid Journal Bearing System', Proceedings of International Conference on Industrial Tribology, ICIT – 04, Mumbai, Dec. 15 – 18, 2004, pp. 328 – 336.
93. Vinod Patil, S.C. Jain, Satish C. Sharma, and Rakesh Kumar Gautam, 'Simulated Study of Sliding Wear', Proceedings of International Conference on Industrial Tribology, ICIT – 04, Mumbai, Dec. 15 – 18, 2004, pp. 442 – 447.
94. Satish C. Sharma, Narendra Singh, S.C. Jain and S. Sanjeeva Reddy, ‘Performance of Multirecess Hydrostatic/Hybrid Journal Bearing of Various Recess Shapes Using Membrane Flow Valve Restrictor', Proceeding of Int. Conference of Fluid Mechanics, I.I.T. Roorkee, December 12-14, 2004, Vol. II, pp 711-723.
95. Satish C. Sharma, T. Nagaraju and S.C. Jain, 'Performance of Orifice Compensated Hole – Entry Hybrid Journal Bearing System, Considering Surface Roughness and Thermal Effects', Proceedings of 2003 STLE / ASME, Joint International Tribology Conference, Ponte Vedra Beach, Florida U.S.A., Oct. 26-29, 2003, Paper No. Trib. – 11, pp. 1-21.
96. T. Nagaraju, Satish C. Sharma, and S.C. Jain, 'Dynamic Performance Characteristics of Misaligned Hybrid Journal Bearing System Including Surface Roughness Effects', Proceedings of Int. Conference of Fluid Mechanics, I.I.T. Roorkee, December 12-14, 2002, Vol. II, pp. 705-710.
97. Satish C. Sharma, T. Nagaraju and S.C. Jain, ‘Combined Influences of Journal Misalignment and Surface Roughness on the Performance of Orifice Compensated Non-Recessed Hybrid Journal Bearing’, proceedings of 57th Annual Meeting of STLE, Houston TX, May 19-**2002**, Technical Preprints, 02-NP-24, pp 609-620
98. Vijay Kumar, Satish C. Sharma and S.C. Jain, ‘Performance of Orifice Compensated Hole-Entry Hybrid Journal Bearing Including Thermal Effects’, Proceedings of ICIT,2001, pp. 4-119 to 4-126, Jamshedpur (INDIA) 8th - 11th April 2002.
99. Nagaraju T, Satish C. Sharma and Jain S. C., ‘Performance of Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing Including Surface Roughness Effects’, Proceedings of ICIT,2001, pp. 4-41 to 4-49, Jamshedpur (INDIA) April 8-11, 2002.
100. Narendra Singh, Satish C. Sharma and S. C. Jain, ‘The Influence of Geometric Shapes of Recess on the Performance of Orifice Compensated Multirecess Hybrid Journal Bearing’, Proceedings of ICIT,2001, pp. 4-31 to 4-40, Jamshedpur (INDIA), April 8-11, 2002.
101. Satish C. Sharma, S. C. Jain and Rajneesh Kumar, ‘Effect of Size of a Hole on the Performance of a Capillary Compensated Hole-Entry Hybrid Journal Bearing’, Proceedings of ICIT,2001, pp. 4-22 to 4-30, Jamshedpur (INDIA), April 8-11, 2002.
102. T. Nagaraju, **Satish C. Sharma** and S. C. Jain,‘Static Performance of Misaligned Hole-Entry Hybrid Journal Bearing Including Surface Roughness Effects ‘, Proceedings of 4th International conference on Mechanical Engineering, December 26-28, 2001, Dhaka, Bangladesh, Section V, pp. 147-153. **2001**.
103. **Satish C. Sharma**, S.C. Jain and N. Madhu Mohan Reddy, ‘A Study of Non – Recessed Hybrid Flexible Journal Bearing with Different Restrictors’, ASME/STLE Tribology Conference, Seattle, WA, October 1 – 4, **2000** and Proceedings of a ASME/2000-Trib.8 (TC2000/STLE-10).
104. **Satish C. Sharma**, S.C. Jain and B.V.N. Surendra Kumar, ‘Effect of Load Direction on the Hydrostatic/Hybrid Performance of a Multirecess Orifice Compensated Flexible Journal Bearing’, Proceedings of International Conference of Industrial Tribology-1999, Hyderabad, Dec. 1-4, pp.101-108, **1999.**
105. Vijay Kumar, **Satish C. Sharma**, S.C. Jain, ‘Transient Response of Capillary Compensated Hybrid Journal Bearing System During Starting and Stoping Operation’, Proceedings of International Conference of Industrial Tribology – 1999, Hyderabad, Dec. 1-4, 1999, pp.75-82, 1999.
106. **Satish C. Sharma**, R. Sinhasan, S. C. Jain, N. Singh and S.K. Singh, ‘Performance of Hydrostatic/Hybrid Journal Bearing with Unconventional Recess Geometries’, Proc. of 52nd Annual Meeting of STLE, KANSAS CITY MISSOURI (U.S.A.), May 18-22, **1997**.
107. R. Sinhasan, S.C. Jain, P.L. Sah and **Satish C. Sharma**, ‘Dynamic Performance Characteristics of Hydrostatic/Hybrid Journal Bearing with Non-Newtonian Lubricants’, Proceedings of International Conference on Industrial Tribology, (ICIT-97), Calcutta (INDIA), Dec. 2-5, pp. 167-171, **1997**.
108. S.C. Jain, **Satish C. Sharma** and A. Jagtap, ‘Performance of Multirecess Hybrid Journal Bearing Operating in Turbulent Regime’, Proceedings of International Conference on Industrial Tribology (ICIT-97), Calcutta (INDIA), Dec. 2-5, pp. 172-177, **1997**.
109. Nagvendra kumar kanoje, **Sharma, Satish C.**, and S. P. Harsha , Mass Reduction of Railway Wheel Using Response Surface Method Considering Natural Frequency and Wheel Dimension, Proceeding of 4th International Conference on Structural Stability.

**Papers Published In National Conferences**

1. Vivek Kumar and **Satish C. Sharma**, “Performance of Circular Recessed Hydrostatic Tilted Thrust pad Bearing Operating with Couple Stress Lubricant”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-557, Dec. 08-10, **2016.**
2. Chandra B. Khatri and **Satish C. Sharma**, “A study of a textured slot-entry hybrid journal bearing system operating with power law lubricant”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-514, Dec. 08-10, **2016.**
3. **Satish C. Sharma** and Chandra B. Khatri, “Performance analysis of a 3-lobe textured slot-entry hybrid journal bearing system ”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-562, Dec. 08-10, **2016.**
4. Dharmendra Jain and **Satish C. Sharma**, “Static and Dynamic Characteristics of a Geometrically Imperfect CFV Compensated Two-Lobe Hybrid Journal Bearing Lubricated With Power Law Lubricant”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-556, Dec. 08-10, **2016.**
5. Suresh Jadhav and **Satish C. Sharma**, “Film thickness in Elasto-hydrodynamic lubricated point contacts”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-558, Dec. 08-10, **2016**
6. Saurabh K. Yadav, Nathi Ram and **Satish C. Sharma**, “Performance of hybrid tilted and textured thrust pad bearing”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-590, Dec. 08-10, **2016**
7. Nathi Ram, Saurabh K. Yadav and **Satish C. Sharma**, “Performance of asymmetric hole-entry hybrid journal bearing using CFV restrictor under micropolar lubrication”, National Tribology conference (NTC-2016), IIT BHU, Varanasi (India), Paper No. NTC-2016-502, Dec. 08-10, **2016**
8. **Satish C. Sharma**, “Hydrostatic/Hybrid Bearings - Some Recent Advances”,Proceedings Tribology Frontiers Workshop 03-04th Aug,Indian Institute of Engineering Science and technology Shibpur, Howrah, **2016**.
9. Prashant B.Kushare and **Satish C. Sharma**, “A study of multilobe slot entry hybrid journal bearing”, National Tribology conference (NTC-2014), PES University, Bengaluru (India), Paper No. NTC-2014-516, Dec. 15-18, **2014.**
10. Chandra B. Khatri and **Satish C. Sharma**, “Performance analysis of a capillary compensated partial non-recess hole entry hybrid journal bearing system”, National Tribology conference (NTC-2014), PES University, Bengaluru (India), Paper No. NTC-2014-505, Dec. 15-18, **2014.**
11. Dharmendra Jain and **Satish C. Sharma**, “Performance analysis of power law lubricated geometrically imperfect four lobe multi-recessed hybrid journal bearings”, National Tribology conference (NTC-2014), PES University, Bengaluru (India), Paper No. NTC-2014-506, Dec. 15-18, **2014.**
12. Saurabh K. Yadav and **Satish C. Sharma**, “Study of circular hydrostatic tilted thrust pad bearing by considering temperature variation of oil film”, National Tribology conference (NTC-2014), PES University, Bengaluru (India), Paper No. NTC-2014-515, Dec. 15-18, **2014.**
13. Nathi Ram, Saurabh K. Yadav and **Satish C. Sharma**, “Static performance of Hole-Entry hybrid Journal Bearing operating under turbulence Regime”, National Tribology conference (NTC-2014), PES University, Bengaluru (India), Paper No. NTC-2014-507, Dec. 15-18, **2014.**
14. Nathi Ram, **Satish C. Sharma,** “Comparative Study of the Performance of Constant Flow Valve and Capillary Compensated Non-Recessed Hole-Entry Hybrid Journal Bearing operating with Micropolar Lubricants”, Proceedings of 1st National Tribology Conference (NTC 2011), IIT Roorkee, Roorkee (India), December 08-10, Paper No. NTC-201124, **2011.**
15. **Satish C. Sharma,** Somesh Sharma, Sumit Wadhwa and Suren Kumar, ‘Design an Electrically Assisted Multi-Terrain Human Powered Vehicle’, Proc. Of 3rd UttaraKhand state Science and Technology Congress’. IIT Roorkee, Nov. 10-11, **2008**, pp167.
16. K.M. Jagdeesha, T. Nagaraju, V.K. Jadon, **Satish C. Sharma** and S.C. Jain, ' Stability of Hole – Entry Hybrid Journal Bearing Lubricated with Non – Newtonian Lubricant From Linear and Non – Linear Transient Analysis', Proceedings of First International and 22nd AIMTDR Conference, Dec. 21 – 23, **2006,** pp. 199-204, Deptt. of Mech. & Ind. Engg., I.I.T. Roorkee, Roorkee 247 667.
17. R.K. Awasthi, **Satish C. Sharma**, and S.C. Jain, 'A Parametric Study on the Performance of Hole – Entry Hybrid Worn Journal Bearing System', Proceedings of National Conference on Advances in Mechanical Engineering (AIME – 2006), Faculty of Engg. & Technology, Jamia Millia Islamia, New Delhi, Jan. 20-21, **2006**, pp. 9-20.
18. R.K. Awasthi, **Satish C. Sharma**, and S.C. Jain, 'Effect of Grid Size on Hydrodynamic Journal Bearing Performance', Proceedings of the Conference on Computer Aided Design and Manufacturing: A Global Perspective MED, TIET, Patiala, April 8-9**, 2005**.
19. Narendra Singh, **Satish C. Sharma**, and S.C. Jain, 'Performance of Constant Flow Valve Compensated Multirecess Hydrostatic / Hybrid Journal Bearing of Different Recess Geometries', Proceedings of National Conference on Recent Development in Mechanical Engineering, Mech. Engg. Deptt., TIET, Patiala, Oct. 31st - 1st Nov., **2003,** pp. 264 – 270.
20. Vijay Kumar, **Satish C. Sharma**, S.C. Jain and Y.J. Rajput, ‘Thermohydrostatic Analysis of Capillary Compensated Hole – Entry Hybrid Journal Bearing’, Proceedings of Sixteenth National convention of Mechanical Engineers, Department of Mechanical and Industrial Engineering, University of Roorkee, Roorkee, pp. 109-116, September 29 – 30, **2000**.
21. T.Nagaraju, **Satish C. Sharma**, S.C. Jain, ‘Performance of Constant Flow Valve Compensated Hole-Entry Hybrid Journal Bearing Considering Journal Misalignment’, Sixteenth National convention of Mechanical Engineers, Department of Mechanical and Industrial Engineering, University of Roorkee, Roorkee, pp. 133-139, September 29 – 30, **2000**.
22. S.C.Jain, R. Sinhasan, **Satish C. Sharma** and V.H. Saran, ‘Comparative Assessment of 3-Pocket and 4-Pocket Journal Bearing Systems’, Proceedings of 9th ISME Conference on Mechanical Engineering, Deptt. of Mech. and Ind. Engg., University of Roorkee, Roorkee – 247 667, Nov. 10-11, **1994**, pp. 579-583.
23. R. Sinhasan, S.C. Jain and **Satish C. Sharma**, ‘Elastic Considerations in Performance Characteristics of Hydrostatic Bearings’, 12th AIMTDR Conference, IIT Delhi on Dec. 12, 1986, pp. 1030(1)-1030(4).

***Declaration:***

**** I hereby declare that the above-mentioned information is correct up to best of my knowledge.

**Place: Roorkee (Prof. Satish C Sharma)**