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Dr. Rastogi received the BSc degree from Rohilkhand University, Bareilly, India in 1991, the MSc degree from University of Roorkee, India in 1993, and the PhD degree from the Indian Institute of Technology, Delhi, India in 1998. From 1998 to 1999 he worked as a postdoctoral fellow in Université de Nice Sophia-Antipolis, Nice, France and from 2000 to 2003 he has been a research fellow in the City University of Hong Kong. In November 2003 he joined the Indian Institute of Technology Roorkee, where he is currently working as an assistant professor. His doctoral work included second order nonlinear interactions in optical waveguides, and periodically segmented waveguides. His current research interests are novel large mode area single-mode fibers, segmented cladding fibers, fiber optic sensors, and waveguide long period gratings. He has published over 70 research papers in refereed journals and conferences. Dr. Rastogi is a Fellow of Optical Society of India, Member of Optical Society of America and Life Member of Indian Laser Association.

RESEARCH INTERESTS

Fiber Optics, Integrated Optics, Nonlinear Guided-wave Optics

RECENT PUBLICATIONS

Journal Articles

1. L. Labonte, **V. Rastogi**, A. Kumar, B. Dussadier and G. Monnom, "Birefringence analysis of multilayer leaky cladding optical fiber," *J. Optics (IOP)*, (In press).
2. D. C. Srivastava, **V. Rastogi** and R. Ghosh, "A rapid Bezier curve method for shape analysis and point representation of asymmetric folds," *J. Structural Geology*, (In press).
3. K. Kamakshi, **V. Rastogi**, A. Kumar and J. Rai, "Design and fabrication of a single-mode optical fiber based refractive index sensor," *Microwave and Optical Technology Letters*, vol. 52, pp. 1408-1411, 2010.
4. D. C. Srivastava, and **V. Rastogi**, "HingeInflex – a MATLAB-based method for precise selection of the hinge and the inflection points in folds," *Geological Magazine*, vol. 147, pp. 233-241, 2010.

5. J. Shah, D. C. Srivastava, **V. Rastogi**, R. Ghosh, and A. Pal, "Strain estimation from single forms of distorted fossils – a computer graphics and MATLAB approach," *J. Geological Society of India*, vol. 75, pp. 88-97, 2010.
6. A. Kumar, **V. Rastogi**, C. Kakkar, and B. Dussardier, "Co-axial dual-core resonant leaky fibre for optical amplifiers," *J. Optics A: Pure and Applied Optics*, vol. 10, pp. 115306 (1-6), 2008.
7. A. Kumar, and **V. Rastogi**, "Multilayer cladding leaky planar waveguide for high-power applications," *Applied Physics B*, vol. 92, pp. 577-583, 2008.
8. A. Kumar, **V. Rastogi**, and K. S. Chiang, "Large-core single-mode channel waveguide based on geometrically shaped leaky cladding," *Applied Physics B*, vol. 90, pp. 507-512, 2008.
9. A. Kumar, and **V. Rastogi**, "Design and analysis of a multilayer cladding large-mode-area optical fibre," *J. Optics A : Pure and Applied Optics*, vol. 10, pp. 015303 (1-6), 2008.
10. A. Kumar, **V. Rastogi**, and K. S. Chiang, "Leaky optical waveguide for high power applications," *Applied Physics B*, vol. 85, pp. 11-16, 2006.
11. **V. Rastogi**, and K. S. Chiang, "Analysis of segmented cladding fiber by the radial effective-index method," *J. Optical Society of America B*, vol. 21, pp. 258-265, 2004.
12. Q. Liu, K. S. Chiang, and **V. Rastogi**, "Analysis of corrugated long-period gratings in slab waveguides and their polarization dependence," *J. Lightwave Technology*, vol. 21, pp. 3399-3405, 2003.
13. **V. Rastogi**, and K. S. Chiang, "Holey optical fiber with circularly distributed holes analyzed by radial effective-index method," *Optics Letters*, vol. 28, pp. 2449-2451, 2003.
14. **V. Rastogi**, and K. S. Chiang, "Leaky optical fibre for large mode area singlemode operation," *Electronics Letters*, vol. 39, pp. 1110-1112, 2003.
15. K. S. Chiang, R. Kancheti, and **V. Rastogi**, "Temperature-compensated fiber-Bragg-grating-based magnetostrictive sensor for DC and AC currents," *Optical Engineering*, vol. 42, pp. 1906-1909, 2003.
16. K. S. Chiang, K. P. Lor, C. K. Chow, H. P. Chan, **V. Rastogi**, and Y. M. Chu, "Widely tunable long-period gratings fabricated in polymer-clad ion-exchanged glass waveguides," *Photonics Technology Letters*, vol. 15, pp. 1094-1096, 2003.
17. **V. Rastogi** and K. S. Chiang, "Long period gratings in planar optical waveguides," *Applied Optics*, vol. 41, pp. 6351-6355, 2002.
18. **V. Rastogi**, K. S. Chiang, and N. N. Akhmediev, "Soliton states in a nonlinear directional coupler with intermodal dispersion," *Physics Letters A*, vol. 301, pp. 27 – 34, 2002.
19. **V. Rastogi** and K. S. Chiang, "Propagation characteristics of a segmented cladding fiber," *Optics Letters*, vol. 26, pp. 491-493, 2001.
20. **V. Rastogi**, P. Baldi, I. Aboud, P. Aschiéri, M.P. De Micheli, D.B. Ostrowsky, and J.P. Meyn, "Effect of proton exchange on periodically poled ferroelectric domains in lithium tantalate," *Optical Materials*, vol. 15, pp. 27-32, 2000.