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Microstructured Polymer Optical Fibres

 Springer

Microstructured Polymer Optical Fibres

JG Myers



Microstructured Polymer Optical Fibres:

Microstructured Polymer Optical Fibres Maryanne Large, 2007-10 This book provides the reader with a clear overview of the considerable body of research and development work carried out in the last five years on microstructured polymer optical fibres mPOFs It discusses new applications which will be opened up by this emerging technology and includes for the first time details about the fabrication process for these fibres The book provides an excellent introduction to this new technology *Tailoring the Functionality of Microstructured Polymer Optical Fibres* Helmut C. Y. Yu, 2010

Poling and Doping of Microstructured Polymer Optical Fibres , Progress on Low Loss of Microstructured Polymer Optical Fibres , Microstructured Polymer Optical Fibres for Data Communications Laura Paige Harvey, 2007 **Optimizing the Fabrication and Optical Performance of Microstructured Polymer Optical Fibres** Richard Lwin, 2008 **The Fabrication of Microstructured Polymer Optical Fibres** Joseph Zagari, 2003 *Hollow-core Microstructured Polymer Optical Fibre , Chemical Fabrication Techniques of Microstructured Polymer Optical Fiber Performs , Cleaving Microstructured Polymer Optical Fibre , Fabrication and Characterization of Microstructured Polymer Optical Fibers with Elliptical Core , Microstructured Polymer Optical Fibres Fabricated from 3D Printers for Sensing Applications Wanvisa Talataisong, 2020 **Bending Microstructured Polymer Optical Fibres , Strategies and Initial Results for Microstructured Polymer Optical Fibre Tapers , Extrusion Technique of Microstructured Polymer Optical Fiber Preform , Chemical Sensing with Microstructured Polymer Optical Fibres** Felicity M. Cox, 2008 **new Bridge Structures for High Numerical Aperture Air-Clad Microstructured Polymer Optical Fibre , Polymer Optical Fibres** Christian-Alexander Bunge, Markus Beckers, Thomas Gries, 2016-08-25 **Polymer Optical Fibres Fibre Types Materials Fabrication Characterization and Applications** explores polymer optical fibers specifically their materials fabrication characterization measurement techniques and applications Optical effects including light propagation degrading effects of attenuation scattering and dispersion are explained Other important parameters like mechanical strength operating temperatures and processability are also described Polymer optical fibers POF have a number of advantages over glass fibers such as low cost flexibility low weight electromagnetic immunity good bandwidth simple installation and mechanical stability Provides systematic and comprehensive coverage of materials fabrication properties measurement techniques and applications of POF Focuses on industry needs in communication illumination and sensors the automotive industry and medical and biotechnology Features input from leading experts in POF technology with experience spanning optoelectronics polymer and textiles Explains optical effects including light propagation degrading effects of attenuation scattering and dispersion Polymer Optical Fiber Bragg Gratings Ricardo Oliveira, Lucia Maria Botas Bilro, Rogerio Nogueira, 2019-11-12 Polymer optical fibers POFs have been regarded as a viable alternative to silica fibers in a variety of sensing applications Fiber optic sensors offer key*

advantages over other sensing technologies which include immunity to electromagnetic interference compact lightweight multiplexing capability and higher sensitivity This book gives an overview of the polymer optical fiber Bragg grating POFBG technology over the last 20 years covering aspects related to the fiber Bragg grating fabrication and also sensing applications The book is split into five chapters and it is written in such a way that can provide a comprehensive and simple route to new users scientists and engineers working or wishing to work in the field of POFBGs Describes the systems commonly employed for producing fiber Braggs gratings FBGs in silica fibers that can be used for the production of POFBGs Explores different laser sources for the inscription of POFBGs Explores the capability of using this technology at the visible and infrared region in different fiber types e g step index microstructured unclad highly birefringent and in fibers composed of different polymer materials such as PMMA doped PMMA PS and ZEONEX Reports the fabrication of different types of POF gratings such as uniform phase shifted tilted chirped and long period gratings Shows the opportunities of POFBGs for a variety of sensing applications The insight to the use of POFBGs provides a vision for the opportunities of this fiber optic technology

26th International Conference on Plastic Optical Fibres Rogerio Nogueira, Ana Maria Rocha, 2017-09-13 26thth International Conference on Plastic Optical Fibres POF 2017 September 13 to 15 2017 Aveiro Portugal

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