DESCRIPTION

This book will provide insight into the principles and applications of nonlinear effects in fibers for students, researchers, and developers who have a basic understanding of electromagnetic theory under their belts. It will explore the physics, limitations, applications, and research results surrounding nonlinear effects in fiber optics. In addition to communications, optical fibers are already used in medical procedures, automobiles, and aircraft and are expected to have many other applications. This will expand the range of industry workers who will find a book of this type useful.

ABOUT THE AUTHOR

Mário F. S. Ferreira, PhD, is the leader of the Optics and Optoelectronics Group of the I3N, the Institute of Nanostructures, Nanomodelling and Nanofabrication, a national Associate Laboratory. He has written for more than 300 scientific journal and conference publications and has served as an advisor for many scientific journals and publishers. Dr. Ferreira is a well-respected leader and lecturer for the Optical Society of America and SPIE, along with the New York Academy of Sciences, the American Association for the Advancement of Science, the European Optical Society, the European Physical Society, and the Portuguese Physical Society.
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