

Mathematical Principles of Optical Fiber Communications

J. H. Cole, PhD

Professor and Director, Center for Optical Communications
University of Maryland, College Park, Maryland

Optical Fiber Communications
Principles and Practice, 2nd Edition
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Le Nguyen Binh



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Mathematical Principles of Optical Fiber Communications J. K. Shaw, 2004-01-01 Annotation With the maturing of mobile portable telephony and the emerging broadband access market greater fiber transmission capacity will be essential in the early 21st century Since the demand for more capacity drives the development of new optics based technologies fiber optics therefore remains a vibrant area for research Mathematical Principles of Optical Fiber Communications is intended to support and promote interdisciplinary research in optical fiber communications by providing essential background in both the physical and mathematical principles of the discipline Chapter topics include the basics of fibers and their construction fiber modes and the criterion of single mode operation the nonlinear Schrödinger equation the variational approach to the analysis of pulse propagation and finally solitons and some new results on soliton formation energy thresholds These chapters are written to be as independent as possible while taking the reader to the frontiers of research on fiber optics communications

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scholarly papers targeting an audience of practicing researchers academics PhD students and other scientists This book describes the rapidly developing field of fiber laser technology filling the very important role of providing students researchers and technology managers with valuable timely and unbiased information on the subject The objective of this book is to highlight recent progress and trends in fiber laser technology covering a wide range of topics such as self pulsing phenomena in high power continuous wave CW Yb doped fiber lasers Q switched fiber laser mode locked fiber laser using carbon nanotubes CNT properties of double scale pulses in mode locked fiber laser Brillouin fiber laser dual wave length fiber laser DWFL for microwave MHz and terahertz THz radiation generation tunable fiber laser based on twin core optical fiber reflective semiconductor optical amplifier RSOA based fiber laser dissipative soliton phenomena in fiber lasers noiselike pulses NLPs in Yb doped fiber laser ultra fast fiber laser numerical simulation in Q switched and mode locked fiber laser gain saturation in optical fiber laser amplifiers heat generation and removal in fiber lasers and different fiber laser based technologies for material processing We hope that this book will be useful for students researchers and professionals who work with fiber lasers This book will also serve as an interesting and valuable reference that will impact stimulate and promote further advances in the area of fiber lasers Direct and Inverse Sturm-Liouville Problems Vladislav V.

Kravchenko,2020-07-28 This book provides an introduction to the most recent developments in the theory and practice of

direct and inverse Sturm Liouville problems on finite and infinite intervals A universal approach for practical solving of direct and inverse spectral and scattering problems is presented based on the notion of transmutation transformation operators and their efficient construction Analytical representations for solutions of Sturm Liouville equations as well as for the integral kernels of the transmutation operators are derived in the form of functional series revealing interesting special features and lending themselves to direct and simple numerical solution of a wide variety of problems The book is written for undergraduate and graduate students as well as for mathematicians physicists and engineers interested in direct and inverse spectral problems

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