Mathematical Principles of Optical Fiber Communications

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Fundamentals of Radar Imaging Margaret Cheney, Brett **Its Applications** Robert B. Gardner,1987-01-01 Borden, 2009-10-08 Radar imaging is a mathematically rich subject with many interesting applications and a large variety of challenging mathematical open problems The goal of this book is to provide mathematicians with the background they need to work in the field building on the foundation of the underlying partial differential equations. The focus is on showing the connection between the physics and the mathematics and on supplying an intuitive mathematical understanding of basic concepts The book includes a description of how a radar system works together with the relevant mathematics theory that quides the choice of radar waveforms derivation of the fundamentals of scattering theory derivation and discussion of the image formation process and a long list of current open problems Readers are assumed to be familiar with the Fourier transform Other assumed background material includes certain basic facts from vector calculus complex variables linear algebra and physics The Mathematics of Diffusion Wei-Ming Ni,2011-10-13 Diffusion has been used extensively in many scientific disciplines to model a wide variety of phenomena The Mathematics of Diffusion focuses on the qualitative properties of solutions to nonlinear elliptic and parabolic equations and systems in connection with domain geometry various boundary conditions the mechanism of different diffusion rates and the interaction between diffusion and spatial heterogeneity The book systematically explores the interplay between different diffusion rates from the viewpoint of pattern formation particularly Turing s diffusion driven instability in both homogeneous and heterogeneous environments and the roles of random diffusion directed movements and spatial heterogeneity in the classical Lotka Volterra competition systems Interspersed throughout the book are many simple fundamental and important open problems for readers to investigate

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