

Numerical Simulation Of Optical Wave Propagation With Examples In Matlab

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Numerical Simulation Of Optical Wave

In addition, many of the basic techniques are applicable to integrated optics and nonlinear, anisotropic, and optically active media. Numerical Simulation of Optical Wave Propagation is solely dedicated to wave-optics simulations. The book discusses digital Fourier transforms (FT), FT-based operations, multiple methods of wave-optics simulations, sampling requirements, and simulations in atmospheric turbulence.

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Numerical simulation of optical wave propagation with examples in MATLAB / Jason D. Schmidt. p. cm. -- (Press monograph ; 199) Includes bibliographical references and index. ISBN 978-0-8194-8326-3 1. Optics--Mathematics. 2. Wave-motion, Theory of--Mathematical models. 3. MATLAB. I. Title. QC383.S36 2010 535'.42015118--dc22 2010015089 Published by SPIE

Numerical Simulation of

NUMERICAL SIMULATION OF OPTICAL WAVE PROPAGATION THROUGH RANDOM MEDIA by Jeongki Pack David A. de Wolf, Chairman Electrical Engineering (ABSTRACT) The propagation of optical plane waves through a one-dimensional Gaussian phase screen and a two-dimensional Gaussian extended medium are simulated numerically, and wave statistics are calculated from the data obtained by the numerical simulation.

NUMERICAL SIMULATION OF OPTICAL WAVE PROPAGATION

Shobhit K. Patel, Juveriya Parmar, Mayurkumar Ladumor, Kawsar Ahmed, Truong Khang Nguyen, and Vigneswaran Dhasarathan, "Numerical simulation of a highly directional optical leaky wave antenna using diamond-shaped graphene perturbations," Appl. Opt. 59, 2225-2230 (2020)

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The book presents the latest advances in numerical simulations of optical wave propagations in turbulent media. The book is clearly written and abundant of excellent examples in MATLAB giving to the reader a lot of step-by-step introductions as well as understanding of the waves propagation. The writing style is very engaging.

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On the other hand in the active region of PC-SOA, the travelling wave rate equation is defined as follows , (4) $dN/dt = Ie/WdL - N\tau c - cneg \times g(N) | A tot | 2 \hbar \omega_0 \sigma_m$ where I is the injection current, e is the electron charge, W is the width of active layer, d is the thickness of active layer, L is the length of active layer, c is the light velocity in vacuum, $\hbar = h / 2 \pi$ where h is the Planck constant, $\omega_0 = 2 \pi f_0$ where f_0 is the optical frequency, σ is ...

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