



Characteristics of Two-Dimensional Triangular and Three-Dimensional Face-Centered-Cubic Photonic Crystals

By Jeffrey D. Clark

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x11 mm. This item is printed on demand - Print on Demand Neuware - Photonic crystals (PhC's) are periodic structures of differing dielectrics that create a photonic band gap (PBG). A PBG, in turn, inhibits the propagation of electromagnetic waves of a speci c frequency range. This thesis focuses on the fabricationand characterization of triangular-structured, two-dimensional PhC's with a PBG designed for visible wavelengths and with applications in visible integrated photonicsystems. A three-dimensional PhC with a PBG in the infrared is also studied for itscharacteristics in regard to its PBG. The two-dimensional fabrication processes pursued were: focused ion beam, electron beam lithography and holographic photo-polymerization/lithography. Thefabrication techniques and materials used to create the PhC in part determined thecharacterization technique required to investigate the PBG. Characterization tech-niques include: the coupling of a beam by means of a prism into a wave-guidingmedium in which the PhC has been fabricated, Fourier transform infrared spectrom-eter, spectrophotometer, and edge ring techniques. Analysis of the transmission andreectance properties of a PhC for various incident angles (within the two dimen-sional plane of the PhC) con rms the presence of a PBG. The design of the PhC wasbased on a program created...



Reviews

It is easy in read through easier to fully grasp. it had been writtern very completely and useful. I am pleased to let you know that here is the greatest book we have read during my personal life and could be he very best book for possibly.

-- Miss Marge Jerde

It is really an remarkable publication i actually have possibly study. It usually is not going to cost excessive. Its been written in an exceedingly basic way and is particularly only right after i finished reading this publication through which basically transformed me, affect the way i think.

-- Dr. Breana O'Kon

Other Kindle Books



Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG, Eignungstest für das Medizinstudium, Adult Attachment Interview,...



Programming in

D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers who are new to computer programming. Although...



Sport is Fun (Red B) NF

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, Sport is Fun (Red B) NF, Dianne Irving, This title is part of Pearson's Bug Club - the first whole-school reading programme that joins books and an online reading world to teach today's...



The Mystery on the Great Barrier

Reef

Gallopade International. Paperback / softback. Book Condition: new. BRAND NEW, The Mystery on the Great Barrier Reef, Carole Marsh, It's a trip "Down Under" for Christina, 10, Grant, 7, and their mystery-writing grandmother Mimi! Lots of surprises and mysterious activities unfold as...



The Java Tutorial (3rd

Edition)

Pearson Education, 2001. Softcover. Book Condition: Neu. Gebraucht - Sehr gut Unbenutzt. Schnelle Lieferung, Kartonverpackung. Abzugsfähige Rechnung. Bei Mehrfachbestellung werden die Versandkosten anteilig erstattet. - Praise for "The Java' Tutorial, Second Edition" includes: "This book stands above the rest because it has...



DK Readers L4: Danger on the Mountain: Scaling the World's Highest

Peaks

DK Publishing (Dorling Kindersley). Paperback / softback. Book Condition: new. BRAND NEW, DK Readers L4: Danger on the Mountain: Scaling the World's Highest Peaks, Andrew Donkin, Linda Martin, From blizzards and glaciers on the world's highest peaks to the challenge of free...