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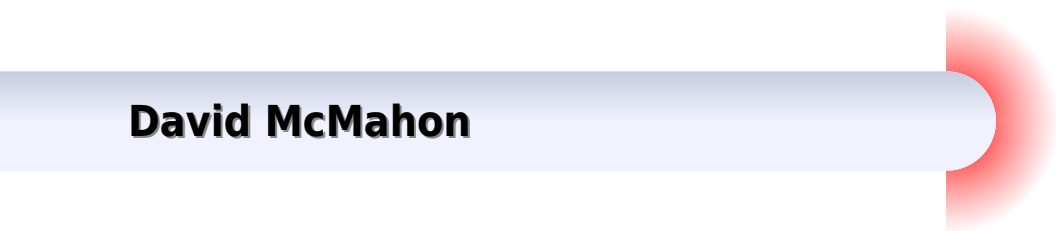
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Mathematical Principles of the Internet, Volume 1 Nirdosh Bhatnagar, 2018-11-20 This two volume set on Mathematical Principles of the Internet provides a comprehensive overview of the mathematical principles of Internet engineering The books do not aim to provide all of the mathematical foundations upon which the Internet is based Instead they cover a partial panorama and the key principles Volume 1 explores Internet engineering while the supporting mathematics is covered in Volume 2 The chapters on mathematics complement those on the engineering episodes and an effort has been made to make this work succinct yet self contained Elements of information theory algebraic coding theory cryptography Internet traffic dynamics and control of Internet congestion and queueing

theory are discussed In addition stochastic networks graph theoretic algorithms application of game theory to the Internet Internet economics data mining and knowledge discovery and quantum computation communication and cryptography are also discussed In order to study the structure and function of the Internet only a basic knowledge of number theory abstract algebra matrices and determinants graph theory geometry analysis optimization theory probability theory and stochastic processes is required These mathematical disciplines are defined and developed in the books to the extent that is needed to develop and justify their application to Internet engineering *American Book Publishing Record* ,2005 **String Theory Demystified** David McMahon,2008-08-31 UNRAVEL the mystery of STRING THEORY Trying to understand string theory but ending up with your brain in knots Here s your lifeline This straightforward guide explains the fundamental principles behind this cutting edge concept String Theory Demystified elucidates the goal of the theory to combine general relativity and quantum theory into a single unified framework You ll learn about classical strings conformal field theory quantization compactification and T duality The book covers supersymmetry and superstrings D branes the holographic principle and cosmology Hundreds of examples and illustrations make it easy to understand the material and end of chapter quizzes and a final exam help reinforce learning This fast and easy guide offers Numerous figures to illustrate key concepts Sample problems with worked solutions Coverage of equations of motion the energy momentum tensor and conserved currents A discussion of the Randall Sundrum model A time saving approach to performing better on an exam or at work Simple enough for a beginner but challenging enough for an advanced student String Theory Demystified is your key to comprehending this theory of everything *Choice* ,2005 *The British National Bibliography* Arthur James Wells,2009 Quantum Mechanics Demystified David McMahon,2005-12-13 This clear concise introduction to quantum mechanics is the perfect supplement and complement to the math heavy texts that dominate the field The author includes hundreds of worked examples to illustrate the processes discussed and Dirac s Method explains how to obtain a desired result in familiar terms rather than with confusing terminology and formulas Quantum Mechanics Demystified, 2nd Edition, 2nd Edition David McMahon,2013 If you think projection operators work in the cinema or learning about spin 1 2 makes your head well spin Quantum Mechanics DeMYSTiFieD will energize your knowledge of this topic s fundamental concepts and theories and allow you to learn at your own pace This thoroughly revised and updated guide eases you into the subject beginning with wave mechanics then introducing you to the mathematical foundations needed to do modern quantum physics As you progress you will learn the fundamentals of matrix mechanics including how to compute the trace of a matrix find eigenvalues and use ladder operators You will understand the difference between time independent perturbation and time dependent perturbation theory and other oncecomplicated concepts Detailed examples make it easy to understand the material and end of chapter quizzes and a final exam help reinforce key ideas It s a no brainer You ll learn about State Space Basis Vectors Functions of Operators The Postulates of Quantum Mechanics Angular Momentum Spin and the Pauli Matrices Scattering

Theory Simple enough for a beginner but challenging enough for an advanced student Quantum Mechanics DeMYSTiFieD Second Edition is your shortcut to a working knowledge of this engaging science **Quantum Mechanics, Second edition**
Paul C.W. Davies, David S. Betts, 1994-06-30 Quantum mechanics is the key to modern physics and chemistry yet it is notoriously difficult to understand This book is designed to overcome that obstacle Clear and concise it provides an easily readable introduction intended for science undergraduates with no previous knowledge of quantum theory leading them through to the advanced topics usually encountered at the final year level Although the subject matter is standard novel techniques have been employed that considerably simplify the technical presentation The authors use their extensive experience of teaching and popularizing science to explain the many difficult abstract points of the subject in easily comprehensible language Helpful examples and thorough sets of exercises are also given to enable students to master the subject

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