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Quantum Bits and Quantum Secrets: How Quantum Physics is revolutionizing Codes and Computers

By Morsch, Oliver

Wiley-VCH, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1 Introduction.2 The Colors of the Rainbow.A Prelude.2.1 The Early Beginnings.2.2 How Fast is Light?2.3 Particle or Wave?2.4 Ripples on a Lake.2.5 A Spark Flies.2.6 In Search of the Ether.2.7 Enter Einstein.3 Light, Waves and Oscillations.Some Useful Facts.3.1 Wavelength, Phase and Interference.3.2 Coherence.3.3 Polarization.4 Nature's Currency. The Story of the Quantum.4.1 An act of Desperation.4.2 Photons Galore.4.3 Uncertainty.4.4 Have You Ever Seen an Atom?4.5 A Question of Stability.5 Surprising Discoveries.A Glimpse at Quantum Mechanics.5.1 Young Again.5.2 Which Way to the Screen?5.3 Distant Relations.6 When Alice Met Bob. The Principles of Quantum Cryptography.6.1 A History of Secrets.6.2 Zeroes and Ones.6.3 One-time Pads.6.4 Secret Photons.6.5 An Element of Randomness.6.6 Sifting Keys.6.7 The BB84 Protocol.6.8 No Cloning, Please.6.9 Noisy Business.6.10 Growing Secrecy.6.11 Ekert's Idea.6.12 Real-world Quantum Cryptography.7 The Logic of Superpositions. How Quantum Computing Works. 7.1 Logic Gates.7.2 The Basic Idea.7.3 Reversibility.7.4 The CNOT Gate.7.5 Something New.7.6 A Magic Test.7.7 Balanced and Unbalanced.7.8 One Step Closer8 Shor's Revolution.An Introduction to Quantum Algorithms.8.1 Grover's Database Search.8.2 How Fast?8.3 Shor's Factorization Algorithm.8.3.1 Slow Calculations.8.3.2 A Nice Trick.8.3.3 Finding the Period 8.3.4 The RSA Code 9 Promising Prototypes How

Reviews

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