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and progresses to advanced results Contents include definition of Turing machines and basic time and space complexity classes probabilistic algorithms interactive proofs cryptography quantum computation lower bounds for concrete computational models decision trees communication complexity constant depth algebraic and monotone circuits proof complexity average case complexity and hardness amplification derandomization and pseudorandom constructions and the PCP theorem Unconventional Computing Andrew Adamatzky, 2018-08-26 This volume of the Encyclopedia of Complexity and Systems Science Second Edition is a unique collection of concise overviews of state of art theoretical and experimental findings prepared by the world leaders in unconventional computing Topics covered include bacterial computing artificial chemistry amorphous computing computing with Solitons evolution in materio immune computing mechanical computing molecular automata membrane computing bio inspired metaheuristics reversible computing sound and music computing enzyme based computing structural machines reservoir computing infinity computing biomolecular data structures slime mold computing nanocomputers analog computers DNA computing novel hardware thermodynamics of computation and quantum and optical computing Topics added to the second edition include social algorithms unconventional computational problems enzyme based computing inductive Turing machines reservoir computing Grossone Infinity computing slime mould computing biomolecular data structures parallelization of bio inspired unconventional computing and photonic computing Unconventional computing is a cross breed of computer science physics mathematics chemistry electronic engineering biology materials science and nanotechnology The aims are to uncover and exploit principles and mechanisms of information processing in and functional properties of physical chemical and living systems with the goal to develop efficient algorithms design optimal architectures and manufacture working prototypes of future and emergent computing devices

Computational Matter Susan Stepney, Steen Rasmussen, Martyn Amos, 2018-07-20 This book is concerned with computing in materio that is unconventional computing performed by directly harnessing the physical properties of materials It offers an overview of the field covering four main areas of interest theory practice applications and implications Each chapter synthesizes current understanding by deliberately bringing together researchers across a collection of related research projects The book is useful for graduate students researchers in the field and the general scientific reader who is interested in inherently interdisciplinary research at the intersections of computer science biology chemistry physics engineering and mathematics *The Nature of Computation* Cristopher Moore, Stephan Mertens, 2011-08-12 Computational complexity is one of the most beautiful fields of modern mathematics and it is increasingly relevant to other sciences ranging from physics to biology But this beauty is often buried underneath layers of unnecessary formalism and exciting recent results like interactive proofs phase transitions and quantum computing are usually considered too advanced for the typical student This book bridges these gaps by explaining the deep ideas of theoretical computer science in a clear and enjoyable fashion making them accessible to non computer scientists and to computer scientists who finally want to appreciate their

field from a new point of view The authors start with a lucid and playful explanation of the P vs NP problem explaining why it is so fundamental and so hard to resolve They then lead the reader through the complexity of mazes and games optimization in theory and practice randomized algorithms interactive proofs and pseudorandomness Markov chains and phase transitions and the outer reaches of quantum computing At every turn they use a minimum of formalism providing explanations that are both deep and accessible The book is intended for graduate and undergraduate students scientists from other areas who have long wanted to understand this subject and experts who want to fall in love with this field all over again

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