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Interested in the Genetic
Algorithm? Simulated
Annealing? Ant Colony
Optimization? Essentials

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of Metaheuristics covers these and other metaheuristics algorithms, and is intended for undergraduate students, programmers, and non-experts. The book covers a

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wide range of algorithms, representations, selection and modification operators, and related topics, and includes 71 figures and 135 algorithms great and small.

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Algorithms include:

Gradient Ascent

techniques, Hill-Climbing

variants, Simulated

Annealing, Tabu Search

variants, Iterated Local

Search, Evolution

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Strategies, the Genetic
Algorithm, the Steady-
State Genetic Algorithm,
Differential Evolution,
Particle Swarm
Optimization, Genetic
Programming variants, One-

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and Two-Population
Competitive Coevolution, N-
Population Cooperative
Coevolution, Implicit
Fitness Sharing,
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Colony Optimization
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prepares students to make the transition from computational to theoretical mathematics. Balancing theory and applications, the book is written in a

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conversational style and combines a traditional presentation with a focus on student-centered learning. Theoretical, computational, and applied topics are presented in a

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flexible yet integrated way. Stressing geometric understanding before computational techniques, vectors and vector geometry are introduced early to help students

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visualize concepts and develop mathematical maturity for abstract thinking. Additionally, the book includes ample applications drawn from a variety of disciplines,

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which reinforce the fact that linear algebra is a valuable tool for modeling real-life problems.

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lovely loopy brain. He is Archimedes, Mick Jagger, Salvador Dali, and Richard Feynman all rolled into one--he boasts a rock star's charisma, a slyly bent

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sense of humor, a polymath's promiscuous curiosity, and an insatiable compulsion to explain everything about the world to everyone in it. At Cambridge, Conway

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wrestled with "Monstrous Moonshine," discovered the aptly named surreal numbers, and invented the cult classic Game of Life--more than just a cool fad, Life

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demonstrates how
simplicity generates
complexity and provides
an analogy for
mathematics and the
entire universe. As a
"mathemagician" at

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Princeton, he used ropes, dice, pennies, coat hangers, even the occasional Slinky, as props to extend his winning imagination and share his many nerdish

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delights. He granted Roberts full access to his idiosyncrasies and intellect both, though not without the occasional grumble: "Oh hell," he'd say. "You're

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***government's development of
quantum information science,
Schrödinger's Killer App:
Race to Build the World's First
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quantum computer capable of solving complex mathematical problems and hacking the public-key encryption codes used to secure the Internet. The "killer application" refers to Shor's quantum factoring

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***algorithm, which would unveil
the encrypted
communications of the entire
Internet if a quantum computer
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entanglement—and his infamous cat—is at the heart of it all. The book develops the concept of entanglement in the historical context of Einstein's 30-year battle with the physics community over the true

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meaning of quantum theory. It discusses the remedy to the threat posed by the quantum code breaker: quantum cryptography, which is unbreakable even by the quantum computer. The author

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also covers applications to other important areas, such as quantum physics simulators, synchronized clocks, quantum search engines, quantum sensors, and imaging devices. In addition, he takes readers

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on a philosophical journey that considers the future ramifications of quantum technologies. Interspersed with amusing and personal anecdotes, this book presents quantum computing and the

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School on this topic since
1977. Its main goal was to
provide an overview of the
recent theoretical and
experimental developments
in an active field of**

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**research, the foundations
of quantum mechanics. The
field is characterized by
a dichotomy of
unparalleled agreement
between theory and
experiment on the one**

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graphic artists, students,
and enthusiasts would do
well to have a
programmable mobile phone
on hand to try out the
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from sound mobile design
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**of a NAill Advanced Study
Institute on the
contemporary glo bal
carbon cycle, held in n
Ciocco, Italy, September
8-20, 1991. The motivation
for this ASI originated**

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from recent controversial findings regarding the relative roles of the ocean and the land biota in the current global balance of atmospheric carbon dioxide.

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Consequently, the purpose of this institute was to review, among leading experts in the field, the multitude of known constraints on the present day global carbon cycle as

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**identified by the fields
of meteorology, physical
and biological
oceanography, geology and
terrestrial biosphere
sciences. At the same time
the form of an Advanced**

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**first three sections of
this book contain the
lectures held in II
Ciocco. The first section
reviews the atmospheric,
large-scale global
constraints on the present**

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day carbon cycle including the emissions of carbon dioxide from fossil fuel use and it provides a brief look into the past. The second section discusses the role of the

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Perkins, founding member and co-director of Project Zero at Harvard's Graduate School of Education, argues that curriculum is one of the most important elements of making students ready for the world of tomorrow. In Future Wise, you'll learn concepts, curriculum criteria,

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