

Read Online How
To Solve It:
Modern Heuristics

**How To
Solve It:
Modern
Heuristic
s**

**Shows how to
make a variety
of puzzles out
of wood, string,**

Read Online How
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**and wire, and
includes
solutions
New and
classical results
in
computational
complexity,
including
interactive
proofs, PCP, der
andomization,
and quantum**

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**designing
algorithms, and
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choice for**

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reference guide
to algorithms
for
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researchers,
and students.**

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**The reader-
friendly
Algorithm
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provides
straightforward
access to
combinatorial
algorithms
technology,
stressing
design over
analysis. The**

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**first part,
Techniques,
provides
accessible
instruction on
methods for
designing and
analyzing
computer
algorithms. The
second part,
Resources, is
intended for**

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reference, and
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algorithmic
resources, impl
ementations
and an
extensive
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and a
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updated and
improved
website
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unique catalog
identifying the
75 algorithmic
problems that
arise most often
in practice,
leading the
reader down the
right path to
solve them •**

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NEW "war
stories" relating
experiences
from real-world
applications •
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date links
leading to the
very best
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mentations
available in C,**

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C++, and Java
Now available
in a one-volume
paperback, this
book traces the
development of
the most
important
mathematical
concepts, giving
special
attention to the
lives and

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**thoughts of
such
mathematical
innovators as
Pythagoras,
Newton,
Poincare, and
Godel.
Beginning with
a Sumerian
short
story--ultimatel
y linked to**

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**modern digital
computers--the
author clearly
introduces
concepts of
binary
operations;
point-set
topology; the
nature of post-
relativity
geometries;
optimization**

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**and decision
processes;
ergodic
theorems;
epsilon-delta
arithmetization;
integral
equations; the
beautiful
"ideals" of
Dedekind and
Emmy Noether;
and the**

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**importance of
"purifying"
mathematics.
Organizing her
material in a
conceptual
rather than a
chronological
manner, she
integrates the
traditional with
the modern,
enlivening her**

Read Online How
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**discussions
with historical
and
biographical
detail.**

**Finite
Difference
Computing with
PDEs
Theory and
Applications to
Power Systems
Modern Puzzles**

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**and How to
Solve Them ...
New Edition
Using Modern
Forensics to
Solve a
3,300-year-old
Mystery
Modern
Heuristic
Optimization
Techniques
The Stanford**

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**Mathematics
Problem Book
Risk,
Environment
and Modernity**
*From everyday apps
to complex
algorithms, Ruha
Benjamin cuts
through tech-
industry hype to
understand how*

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emerging

*technologies can
reinforce White
supremacy and
deepen social
inequity. Benjamin
argues that
automation, far
from being a
sinister story of
racist programmers
scheming on the*

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*dark web, has the
potential to hide,
speed up, and
deepen
discrimination while
appearing neutral
and even benevolent
when compared to
the racism of a
previous era.*

*Presenting the
concept of the “New*

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Jim Code,” she shows how a range of discriminatory designs encode inequity by explicitly amplifying racial hierarchies; by ignoring but thereby replicating social divisions; or by aiming to fix racial bias but ultimately

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*doing quite the
opposite. Moreover,
she makes a
compelling case for
race itself as a kind
of technology,
designed to stratify
and sanctify social
injustice in the
architecture of
everyday life. This
illuminating guide*

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*provides conceptual
tools for decoding
tech promises with
sociologically
informed
skepticism. In doing
so, it challenges us
to question not only
the technologies we
are sold but also the
ones we ourselves
manufacture. Visit*

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the book's free

*Discussion Guide
here.*

*We commonly think
of society as made
of and by humans,
but with the
proliferation of
machine learning
and AI technologies,
this is clearly no
longer the case.*

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*Billions of
automated systems
tacitly contribute to
the social
construction of
reality by drawing
algorithmic
distinctions between
the visible and the
invisible, the
relevant and the
irrelevant, the likely*

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*and the unlikely –
on and beyond
platforms. Drawing
on the work of
Pierre Bourdieu,
this book develops
an original
sociology of
algorithms as social
agents, actively
participating in
social life. Through*

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*a wide range of
examples, Massimo
Airoldi shows how
society shapes
algorithmic code,
and how this culture
in the code guides
the practical
behaviour of the
code in the culture,
shaping society in
turn. The 'machine*

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*habitus' is the
generative
mechanism at work
throughout myriads
of feedback loops
linking humans with
artificial social
agents, in the
context of digital
infrastructures and
pre-digital social
structures. Machine*

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Habitus will be of great interest to students and scholars in sociology, media and cultural studies, science and technology studies and information technology, and to anyone interested in the growing role of

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*algorithms and AI
in our social and
cultural life.*

*A perennial
bestseller by eminent
mathematician G.
Polya, How to Solve
It will show anyone
in any field how to
think straight. In
lucid and appealing
prose, Polya reveals*

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*how the
mathematical
method of
demonstrating a
proof or finding an
unknown can be of
help in attacking
any problem that
can be "reasoned"
out—from building
a bridge to winning
a game of*

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anagrams.

*Generations of
readers have
relished Polya's
deft—indeed, brilliant—instructions on
stripping away
irrelevancies and
going straight to the
heart of the
problem.*

This book is the only

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*source that provides
a systematic,
integrated
introduction to
problem solving
using modern
heuristics,
presenting the state-
of-the-art in both
numerical and
analytic methods. It
covers classic*

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*methods of
optimization,
including dynamic
programming, the
simplex method, and
gradient techniques,
as well as recent
innovations such as
simulated
annealing, tabu
search, and
evolutionary*

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Modern Heuristics
computation.

*Integrated into the
discourse is a series
of problems and
puzzles to challenge
the reader. Written
in a lively, engaging
style, readers will
learn how to use
some of the most
powerful problem
solving tools*

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Modern Heuristics
currently available.

*A Modern Approach
Design of Modern
Heuristics*

*History of Science
and Technology in
China*

*New Book of
Puzzles*

*The Algorithm
Design Manual
Computational*

Read Online How
To Solve It:
Modern Heuristics
Complexity

***Modern Deep
Learning Design
and Application
Development***

How to Solve It:
Modern
Heuristics
Springer
Science & Business
Media

A comprehensive
guide with extensive

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coverage on
concepts such as
OOP, functional
programming,
generic
programming, and
STL along with the
latest features of
C++ Key
Features Delve into
the core patterns
and components of

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C++ in order to master application design. Learn tricks, techniques, and best practices to solve common design and architectural challenges. Understand the limitation imposed by C++ and how to solve them using

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design patternsBook

Description C++ is a general-purpose programming language designed with the goals of efficiency, performance, and flexibility in mind.

Design patterns are commonly accepted solutions to well-

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recognized design problems. In essence, they are a library of reusable components, only for software architecture, and not for a concrete implementation. The focus of this book is on the design patterns that

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naturally lend themselves to the needs of a C++ programmer, and on the patterns that uniquely benefit from the features of C++, in particular, the generic programming.

Armed with the knowledge of these

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patterns, you will spend less time searching for a solution to a common problem and be familiar with the solutions developed from experience, as well as their advantages and drawbacks. The other use of design

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patterns is as a concise and an efficient way to communicate. A pattern is a familiar and instantly recognizable solution to specific problem; through its use, sometimes with a single line of code, we can convey a

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considerable amount of information. The code conveys: "This is the problem we are facing, these are additional considerations that are most important in our case; hence, the following well-known solution was chosen." By the end

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of this book, you will have gained a comprehensive understanding of design patterns to create robust, reusable, and maintainable code. What you will learn

Recognize the most common design patterns used in

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C++ Understand
how to use C++
generic
programming to
solve common
design
problems Explore the
most powerful C++
idioms, their
strengths, and drawb
acks Rediscover how
to use popular C++

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idioms with generic programming
Understand the impact of design patterns on the program's performance
Who this book is for
This book is for experienced C++ developers and programmers who wish to learn about

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software design patterns and principles and apply them to create robust, reusable, and easily maintainable apps.

Like masterpieces of art, music, and literature, great mathematical theorems are

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creative milestones, works of genius destined to last forever. Now William Dunham gives them the attention they deserve. Dunham places each theorem within its historical context and explores the very human and

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often turbulent life of the creator — from Archimedes, the absentminded theoretician whose absorption in his work often precluded eating or bathing, to Gerolamo Cardano, the sixteenth-century mathematician whose

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accomplishments flourished despite a bizarre array of misadventures, to the paranoid genius of modern times, Georg Cantor. He also provides step-by-step proofs for the theorems, each easily accessible to readers with no

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more than a
knowledge of high
school mathematics.

A rare combination
of the historical,
biographical, and
mathematical,

Journey Through

Genius is a

fascinating

introduction to a

neglected field of

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human creativity. "It is mathematics presented as a series of works of art; a fascinating lingering over individual examples of ingenuity and insight. It is mathematics by lightning flash."

—Isaac Asimov

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Examples help
explain the seven
basic mathematical
problem-solving
methods, including
inference,
classification of
action sequences,
working backward,
and contradiction
A New Aspect of
Mathematical

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Method

Famous Problems of
Geometry and How
to Solve Them

Modern Puzzles and
how to Solve Them

Modeling and
Solution

Towards a New
Ecology

Improving your C#
Skills

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Race After
Technology
**From three design
partners at Google
Ventures, a unique
five-day
process--called
the sprint--for
solving tough
problems using
design,
prototyping, and**

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**testing ideas with
customers.**

**Learn how to
harness modern
deep-learning
methods in many
contexts. Packed
with intuitive
theory, practical
implementation
methods, and
deep-learning
case studies, this**

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**book reveals how
to acquire the
tools you need to
design and
implement like a
deep-learning
architect. It covers
tools deep
learning engineers
can use in a wide
range of fields,
from biology to
computer vision to**

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**business. With
nine in-depth case
studies, this book
will ground you in
creative, real-
world deep
learning thinking.
You'll begin with a
structured guide
to using Keras,
with helpful tips
and best practices
for making the**

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**most of the
framework. Next,
you'll learn how to
train models
effectively with
transfer learning
and self-
supervised pre-
training. You will
then learn how to
use a variety of
model
compressions for**

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practical usage.

**Lastly, you will
learn how to
design successful
neural network
architectures and
creatively reframe
difficult problems
into solvable ones.
You'll learn not
only to understand
and apply
methods**

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**successfully but to
think critically
about it. Modern
Deep Learning
Design and
Methods is ideal
for readers
looking to utilize
modern, flexible,
and creative deep-
learning design
and methods. Get
ready to design**

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To Solve It:
Modern Heuristics

**and implement
innovative deep-
learning solutions
to today's difficult
problems. What
You'll Learn
Improve the
performance of
deep learning
models by using
pre-trained
models, extracting
rich features, and**

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**automating
optimization.
Compress deep
learning models
while maintaining
performance.
Reframe a wide
variety of difficult
problems and
design effective
deep learning
solutions to solve
them. Use the**

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**Keras framework,
with some help
from libraries like
HyperOpt,
TensorFlow, and
PyTorch, to
implement a wide
variety of deep
learning
approaches. Who
This Book Is For
Data scientists
with some**

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**familiarity with
deep learning to
deep learning
engineers seeking
structured
inspiration and
direction on their
next project.
Developers
interested in
harnessing
modern deep
learning methods**

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**to solve a variety
of difficult
problems.**

**An accessible
treatment of the
modeling and
solution of integer
programming
problems,
featuring modern
applications and
software In order
to fully**

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To Solve It:
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**comprehend the
algorithms
associated with
integer
programming, it is
important to
understand not
only how
algorithms work,
but also why they
work. Applied
Integer
Programming**

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features a unique emphasis on this point, focusing on problem modeling and solution using commercial software. Taking an application-oriented approach, this book addresses the art and science of mathematical

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**modeling related
to the mixed
integer
programming
(MIP) framework
and discusses the
algorithms and
associated
practices that
enable those
models to be
solved most
efficiently. The**

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**book begins with
coverage of
successful
applications,
systematic
modeling
procedures,
typical model
types,
transformation of
non-MIP models,
combinatorial
optimization**

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**problem models,
and automatic
preprocessing to
obtain a better
formulation.**

**Subsequent
chapters present
algebraic and
geometric basic
concepts of linear
programming
theory and
network flows**

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**needed for
understanding
integer
programming.
Finally, the book
concludes with
classical and
modern solution
approaches as
well as the key
components for
building an
integrated**

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**software system
capable of solving
large-scale integer
programming and
combinatorial
optimization
problems.**

**Throughout the
book, the authors
demonstrate
essential concepts
through numerous
examples and**

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figures. Each new concept or algorithm is accompanied by a numerical example, and, where applicable, graphics are used to draw together diverse problems or approaches into a unified whole. In addition, features

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**of solution
approaches found
in today's
commercial
software are
identified
throughout the
book. Thoroughly
classroom-tested,
Applied Integer
Programming is an
excellent book for
integer**

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**programming
courses at the upp
er-undergraduate
and graduate
levels. It also
serves as a well-
organized
reference for
professionals,
software
developers, and
analysts who work
in the fields of**

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**applied
mathematics,
computer science,
operations
research,
management
science, and
engineering and
use integer-
programming
techniques to
model and solve
real-world**

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**optimization
problems.
Examines the
world of
algorithms,
looking at what
they are and how
they are
increasingly being
used to solve
problems and
predict human
behavior based on**

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**vast and ever-
increasing
amounts of
available data.**

**Versatile Tools to
Solve Deep
Learning
Problems**

**Journey Through
Genius**

**Abolitionist Tools
for the New Jim
Code**

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**A Modern
Software
Approach
Elements of a
Theory of
Problems and
Problem Solving
How to Solve the
Mismanagement
Crisis
The Great
Theorems of
Mathematics**

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This in-depth analysis goes behind the headlines to understand why crucial negotiations fail. The author argues that diplomats often enter negotiations with flawed assumptions about human behavior, sovereignty, and power. Essentially, the international community is using a model of European

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diplomacy dating back to the 18th century to solve the complex problems of the 21st century. Through numerous examples, the author shows that the key failure in current diplomatic efforts is the entrenched belief that nations, through their representatives, will act rationally to further their individual political,

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economic, and strategic interests. However, the contemporary scientific understanding of how people act and see their world does not support this assumption. On the contrary, research from decision-making theory, behavioral economics, social neuropsychology, and current best practices in mediation indicate that emotional

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and irrational factors often have as much, if not more, to do with the success or failure of a mediated solution.

Reviewing a wide range of conflicts and negotiations, Noll demonstrates that the best efforts of negotiators often failed because they did not take into account the deep-seated values and

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emotions of the disputing parties. In conclusion, Noll draws on his own long experience as a professional mediator to describe the process of building trust and creating a climate of empathy that is the key to successful negotiation and can go a long way toward resolving even seemingly intractable

Read Online How To Solve It: Modern Heuristics conflicts.

Starting with the fundamentals of classical smooth optimization and building on established convex programming techniques, this research monograph presents a foundation and methodology for modern nonconvex nondifferentiable optimization. It provides

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readers with theory, methods, and applications of nonconvex and nondifferentiable optimization in statistical estimation, operations research, machine learning, and decision making. A comprehensive and rigorous treatment of this emergent mathematical topic is

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urgently needed in today ' s complex world of big data and machine learning. This book takes a thorough approach to the subject and includes examples and exercises to enrich the main themes, making it suitable for classroom instruction.

Modern Nonconvex
Nondifferentiable
Optimization is

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intended for applied and computational mathematicians, optimizers, operations researchers, statisticians, computer scientists, engineers, economists, and machine learners. It could be used in advanced courses on optimization / operations research and nonconvex and nonsmooth optimization.

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Proceedings of the
International Scientific
and Practical
Conference
Based on Stanford
University's well-known
competitive exam, this
excellent mathematics
workbook offers students
at both high school and
college levels a complete
set of problems, hints,
and solutions. 1974
edition.

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101 Classic and Modern
Puzzles to Make and
Solve

Toward a Sociology of
Algorithms

Silent Spring

Applied Integer
Programming

With Hints and
Solutions

Who Killed King Tut?

Modern Perl

This book

explores how

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***developing
solutions with
heuristic tools
offers two major
advantages:
shortened
development time
and more robust
systems. It begins
with an overview
of modern
heuristic
techniques and***

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***goes on to cover
specific
applications of
heuristic
approaches to
power system
problems, such as
security
assessment,
optimal power
flow, power
system
scheduling and***

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***operational
planning, power
generation
expansion
planning, reactive
power planning,
transmission and
distribution
planning,
network
reconfiguration,
power system
control, and***

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***hybrid systems of
heuristic
methods.***

***Foreword by
Egyptologist
JoAnn***

***FletcherPreface
by Harold***

***Bursztajn,
M.D.With New***

***Data on the
Egyptian CT***

ScanWritten in

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*the style of a
fictional
whodunit, this
fascinating piece
of historical
detection will
appeal to history
buffs, mystery
lovers, and true-
crime fans. -
BooklistThe
greatest
archaeological*

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***find of the 20th
century, and
perhaps of all
time, was the
discovery in 1922
of the tomb of the
Egyptian Pharaoh
Tutankhamen.
Untouched for
3,300 years, the
ancient tomb,
filled with
spectacular***

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treasures, raised many questions about the legendary reign of this boy king. Recently Tut has been in the news again. Not only has a traveling museum exhibit of his tomb's fascinating artifacts drawn

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***the public's
attention, but
also a CT scan of
his body, which
provides new
evidence
concerning the
king's fate, has
received a good
deal of media
attention. Based
on this new
investigation, an***

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***Egyptian team of
scientists and
scholars has now
publicly ruled out
the possibility
that Tut was
murdered. In this
thorough and
intriguing review
of all of the
evidence, two law
enforcement
specialists in***

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***forensics and the
psychology of
criminal behavior
dispute the
conclusions
reached by the
Egyptian team.
Applying
sophisticated
crime-solving
techniques used
in the
investigation of***

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***contemporary
murders,
Detectives King
and Cooper make
a compelling case
that the cause of
King Tut's death
was most likely
murder. The
detectives'
investigation
concentrates on
Tut's inner circle***

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*of close
confidants. One
by one, the
suspects are
eliminated, due
to evidence or
probable cause,
until in the end
the detectives
focus on the most
likely suspect. For
readers who enjoy
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***crime, and
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turner. Michael R.
King is a senior
investigative
analyst for
Motorola. He is a
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***Federal Security
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ration. Don
DeNevi is the
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down time? How
do you unleash
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stock market,
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Da Vinci Code
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numbers work,***

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***and the impact
they have on our
lives every day.
Most textbooks
on modern
heuristics provide
the reader with
detailed
descriptions of
the functionality
of single
examples like
genetic***

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***algorithms,
genetic
programming,
tabu search,
simulated
annealing, and
others, but fail to
teach the
underlying
concepts behind
these different
approaches. The
author takes a***

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different approach in this textbook by focusing on the users' needs and answering three fundamental questions: First, he tells us which problems modern heuristics are expected to perform well on,

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***and which should
be left to
traditional
optimization
methods. Second,
he teaches us to
systematically
design the "right"
modern heuristic
for a particular
problem by
providing a
coherent view on***

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***design elements
and working
principles. Third,
he shows how we
can make use of
problem-specific
knowledge for the
design of
efficient and
effective modern
heuristics that
solve not only
small toy***

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***problems but also
perform well on
large real-world
problems. This
book is written in
an easy-to-read
style and it is
aimed at students
and practitioners
in computer
science,
operations
research and***

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***and practitioners
in computer
science,
operations
research and
information
systems who want
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Poisson processes,
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Markov chains, and
Brownian motion;
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Optimization
Discusses the

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reckless

annihilation of fish
and birds by the
use of pesticides
and warns of the
possible genetic
effects on humans.

No pleasure lasts
long unless there
is variety in it.

Publilius Syrus,
Moral Sayings

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Ninety-ninth
Congress, First
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1776 ... April 26,
1985, Fort Worth,
TX; September 28,
1985, Denver, CO;
October 5, 1985,
Chicago, IL;

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November 9,
1985, Indianapolis,
IN; December 21,
1985, New York,
NY; January 10,
1986, Los
Angeles, CA;
January 24, 1986,
State College, PA;
January 24, 1986,
Altoona, PA;
February 22, 1986,

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Miami, FL.

How Algorithms
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Installation/upgrade

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instructions included. Many books have been written on the theory of functional equations, but very few help readers solve functional equations in mathematics competitions and mathematical problem solving. This book fills that gap. Each chapter includes

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a list of problems associated with the covered material. These vary in difficulty, with the easiest being accessible to any high school student who has read the chapter carefully. The most difficult will challenge students studying for the International

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Mathematical Olympiad or the Putnam Competition. An appendix provides a springboard for further investigation of the concepts of limits, infinite series and continuity. This book is open access under a CC BY 4.0 license. This easy-to-read book

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introduces the basics of solving partial differential equations by means of finite difference methods. Unlike many of the traditional academic works on the topic, this book was written for practitioners. Accordingly, it especially addresses: the construction of finite difference

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schemes, formulation and implementation of algorithms, verification of implementations, analyses of physical behavior as implied by the numerical solutions, and how to apply the methods and software to solve problems in the fields of physics and biology.

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States from Global Warming to the Student Debt Crises. Issues like the 2nd amendment, gay marriage, bailouts and the collapse of the economy. How to solve problems using the constitution takes the reader through different issues, while explaining history of the United States

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where there might have been similar problems then. How did Washington solve the debt crisis from the revolutionary war? We have a debt crisis today. How can we use history to solve our problems today? What does it mean to be an American vs a British Subject? How did the

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United States
become the power
house that it is
today? Why is it so
hard to live in the
United States? What
is constitutional and
what is not
constitutional? This
book is designed to
educate the reader
on running for office
and solving our
problems like the

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constitution was designed for. Solving our problems diplomatically, using our laws to raise the stand of living for the common man. Only you can run for office and work within our government to change things for the good. Our politicians are invested in themselves. Our

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politicians are going to do what they are told by the people who finance their campaigns. That is why you need to run for political office and that is why I wrote this book. Hopefully I might have enough money to run for office one day. I hope that this book motivates you, the

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reader to be self-
confident embracing
your democratic
republican
responsibilities and
run for office. I hope
that I create an army
of responsible
democratic
republican civilians
that take their
government back
from the Special
interests, lobbyists

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and the foreign
governments that are
controlling the
United States of
America today.

The Formula
Principles and
Application
How to Solve It
Solve modern
challenges with
functional
programming and
test-driven

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techniques of C#

Sprint

The Nature and

Growth of Modern

Mathematics

Elusive Peace

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interesting

programming

challenges by

building robust and

concurrent

applications with

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caches, cryptography,
and parallel
programming. Key
FeaturesUnderstand
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frameworks like the
Task Parallel Library
(TPL)and
CryptoAPIDevelop a
containerized
application based on
microservices
architectureGain

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insights into memory
management
techniques in .NET
CoreBook

Description This
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you how to create
high performing
applications and solve
programming
challenges using a
wide range of C#
features. You'll begin

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by learning how to identify the bottlenecks in writing programs, highlight common performance pitfalls, and apply strategies to detect and resolve these issues early. You'll also study the importance of micro-services architecture for building fast

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applications and implementing resiliency and security in .NET Core. Then, you'll study the importance of defining and testing boundaries, abstracting away third-party code, and working with different types of test double, such as spies,

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mocks, and fakes. In addition to describing programming trade-offs, this Learning Path will also help you build a useful toolkit of techniques, including value caching, statistical analysis, and geometric algorithms. This Learning Path includes content from

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the following Packt
products: C# 7 and
.NET Core 2.0 High
Performance by
Ovais Mehboob
Ahmed

Khan Practical Test-
Driven Development
using C# 7 by John
Callaway, Clayton
Hunt The Modern C#
Challenge by Rod
Stephens What you

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will learn Measure
application
performance using B
enchmarkDotNetLeve
rage the Task Parallel
Library (TPL) and
Parallel Language
Integrated Query
(PLINQ)library to
perform
asynchronous
operationsModify a
legacy application to

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make it testable
Use LINQ and PLINQ to search directories for files matching patterns
Find areas of polygons using geometric operations
Randomize arrays and lists with extension methods
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and decrypt strings
and files Who this
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speed of your code
and optimize the
performance of your
applications, or are
simply looking for a
practical resource on
test driven
development, this is
the ideal Learning

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Path for you. Some familiarity with C# and .NET will be beneficial.