

Access Free
Computers And
Intractability A To
Computers
The Theory Of Np
And
Completeness
Series Of Books In
Intractability
The Mathematical
A To The
Sciences
Theory Of Np
Completeness
Series Of
Books In The

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Computers And

*Mathematical
Sciences*

New and
classical
results in
computational
complexity,
including
interactive
proofs, PCP,
derandomization,
and quantum

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Computers And
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computation.
Ideal for
graduate
students.

A quantum
computer is a
computer based
on a
computational
model which uses
quantum
mechanics, which
is a subfield of
physics to study

Access Free Computers And Intractability A To phenomena at the The Theory Of Np micro level.

There has been a
Completeness
growing interest in
Series Of Books In
on quantum
The Mathematical
computing in the
Sciences
1990's and some
quantum
computers at the
experimental
level were
recently
implemented.
Quantum

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computers enable
The Theory Of Np
super-speed
Completeness
computation and
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can solve some
The Mathematical
important
Sciences
problems whose
solutions were
regarded
impossible or
intractable with
traditional
computers. This
book provides a
quick

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introduction to
The Theory Of Np
quantum
Completeness
computing for
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readers who have
The Mathematical
no backgrounds
Sciences
of both theory
of computation
and quantum
mechanics.

“Elements of
Quantum
Computing”
presents the
history,

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theories and
The Theory Of Np
engineering
Complexities of
Series Of Books In
quantum
The Mathematical
computing. The
Sciences
book is suitable
to computer
scientists,
physicists and
software
engineers.

Computers and
Intractability A
Guide to the

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Theory of NP-com
The Theory Of Np
Completeness
rs and

Intractability A
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Completeness
Sciences
W.H.

Freeman

This text
addresses some
theoretical
issues
surrounding
computer

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science. It
The Theory Of Np
provides an
Completions
introduction to
Series Of Books In
the theory of
The Mathematical
computation, and
Sciences
covers
programming
languages,
finite state
machines,
grammars,
Boolean
circuits,
computational

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complexity,
The Theory Of Np
feasible
problems, and
intractable
problems.

A New Era in
Computation

What Can Be
Computed?

Computers Ltd

How Stories

Explain

Computing

Philosophical

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Intractability A To
Logic and
The Theory Of Np
Artificial
Completeness
Intelligence
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*Most people
are baffled by
how computers
work and
assume that
they will
never
understand*

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Computers And
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them. What
The Theory Of Np
they don't
Completeness
realize—and
Series Of Books In
what Daniel
The Mathematical
Hillis's short
Sciences
book

brilliantly de
monstrates—is
that
computers'
seemingly
complex

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Computers And
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operations can
The Theory Of Np
be broken down
Completeness
into a few
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simple parts
The Mathematical
that perform
Sciences
the same
simple
procedures
over and over
again.

Computer
wizard Hillis

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offers an easy-
The Theory Of Np
to-follow
Completeness
explanation of
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how data is
The Mathematical
processed that
Sciences
makes the
operations of
a computer
seem as straig
htforward as
those of a bic
ycle. Avoiding

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technobabble
The Theory Of No
or discussions
Completeness
of advanced
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hardware, the
The Mathematical
lucid
Sciences
explanations
and colorful
anecdotes in
The Pattern on
the Stone go
straight to
the heart of

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what computers
The Theory Of Np
really do.
Completeness
Hillis
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proceeds from
The Mathematical
an outline of
Sciences
basic logic to
clear
descriptions
of programming
languages,
algorithms,
and memory. He

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then takes
The Theory Of Np
readers in
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simple steps
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up to the most
The Mathematical
exciting
Sciences
developments
in computing
today—quantum
computing,
parallel
computing,
neural

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networks, and
The Theory Of Np
self-
Completeness
organizing sys
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tems. Written
The Mathematical
clearly and
Sciences
succinctly by
one of the
world's
leading
computer
scientists,
The Pattern on

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the Stone is
The Theory Of Np
an
Completeness
indispensable
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guide to
The Mathematical
understanding
Sciences
the workings
of that most
ubiquitous and
important of
machines: the
computer.
cians

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concerned with
The Theory Of No
using logical
Completeness
tools in
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philosophy
The Mathematical
have been
Sciences
keenly aware
of the
limitations
that arise
from the
original con
centration of

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symbolic logic
The Theory Of Np
on the idiom
Completeness
of
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mathematics,
The Mathematical
and many of
Sciences
them have
worked to
create
extensions of
the received
logical
theories that

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would make
The Theory Of Np
them more
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applicable in
The Mathematical
philosophy.
Sciences

Carnap's
Testability
and Meaning,
published in
1936 and 1937,
was a good
early example

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Intractability A To

*of this sort
of research,
motivated by
the inadequacy
of first-order
formalizations*

*of dis 'This
sugar cube is
soluble in
water'.*

*positional
sentences like*

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Intractability A To
And in fact
The Theory Of Np
there is a
Completeness
continuous
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history of
The Mathematical
work on this
Sciences
topic,

extending from
Carnap's paper
to Shoham's
contribution
to the present
volume . .

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Much of the
The Theory Of Np
work in
Completeness
philosophical
Series Of Books In
logic, and
The Mathematical
much of what
Sciences
has appeared
in The Journal
of
Philosophical
Logic, was mo
tivated by
similar consid

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erations: work
The Theory Of No
in modal logic
Completeness
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(including
The Mathematical
tense,
Sciences
deontic, and
epistemic
logic),
intensional
logics, non
declaratives,
presupposition
s, and many

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Intractability. A To
other topics.
The Theory Of Np
Completeness
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The Mathematical
Sciences
In this sort
of research,
since the
main point is
to devise new
formalisms,
the technical
development
tends to be
rather shallow
in comparison

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Intractability A To
with
The Theory Of Np
mathematical
Completeness
logic, though
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it is self dom
The Mathematical
absent:
Sciences
theorems need
to be proved
in order to
justify the
formalisms,
and sometimes
these are

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nontrivial. On
The Theory Of Np
the other
Completeness
hand, much
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effort has to
The Mathematical
go into
Sciences
motivating a
logical
innovation.
Provides a
study of the
fundamental
theoretical

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ideas of
The Theory Of No
computing and
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examining how
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to design
The Mathematical
accurate and
Sciences
efficient
algorithms.

Role of
Blockchain
Technology in
IoT
Applications,

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Volume 115 in
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the Advances
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series,
The Mathematical
reviews the
Sciences
latest
information on
this topic
that promises
many
applications
in human life.

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According to
The Theory Of No
forecasts made
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by various
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market research
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h/survey
Sciences
agencies,
there will be
around 50
Billion
connected
devices (IoT)
by 2020.

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Updates in
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Platforms for
Blockchain-

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Intersections
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Between IoT
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Ledger,
Blockchain and
Artificial
Intelligence:
How and Why
Combining
These Two

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in Health Care
Sciences
and*

*Opportunities
and*

Advancements

Due to New

Information

Technology

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Frameworks,
The Theory Of Np
and more.
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technology
Sciences
research
trends in
secured device
to device
communication
Includes
updates on

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secure
vehicular
communication
(VANET) using
blockchain
technology

Provides the
latest on
secure IoT
communication
using
blockchain

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technology
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Presents use
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cases of
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technology in
Sciences
healthcare,
the food
chain, ERP and
other emerging
areas

An

Introduction

Page 38/231

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to the
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Completeness
and the
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Intractable
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A Theory Revol
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utionizing
Technology and
Science
The Invocation
Model of
Process
Expression

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Real
Completeness
Computation
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Computation
Introduction
to Quantum
Computers

Covering the basic
techniques used in
the latest research

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work, the author
The Theory Of Np
consolidates
Completeness
progress made so
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far, including some
The Mathematical
very recent and
Sciences
promising results,
and conveys the
beauty and
excitement of work
in the field. He gives
clear, lucid
explanations of key
results and ideas,

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with intuitive proofs,
The Theory Of No
and provides critical
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examples and
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numerous
The Mathematical
illustrations to help
Series
elucidate the
algorithms. Many of
the results
presented have
been simplified and
new insights
provided. Of interest
to theoretical

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computer scientists,
The Theory Of Np
operations
Completeness
researchers, and
Series Of Books In
discrete
The Mathematical
mathematicians.

This book is about
the design of
computer
technology. It it, we
look closely at
computers as they
exist today and we
set out new

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Computers And
Intractability. A To
directions for future
The Theory Of Np
development. This
Completeness
discourse presented
Series Of Books In
here, however, is
The Mathematical
not what one would
Science
expect to find in a
book of science and
engineering. It
moves among
topics and purposes
that appear to be
worlds apart: it is
both theoretical and

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practical; it is
The Theory Of Np
concerned with
Completeness
computer
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technology and with
The Mathematical
the nature of human
Systems;
existence; with the
philosophy of
language with office
automation.

Quantum computing
promises to solve
problems which are
intractable on digital

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Intractability: A To
computers. Highly
The Theory Of Np
parallel quantum
Completeness
algorithms can
Series Of Books In
decrease the
The Mathematical
computational time
Series
for some problems
by many orders of
magnitude. This
important book
explains how
quantum computers
can do these
amazing things.

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The Theory Of Np
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The Mathematical
Sciences

Several algorithms
are illustrated: the
discrete Fourier
transform, Shor's
algorithm for prime
factorization;
algorithms for
quantum logic
gates; physical
implementations of
quantum logic gates
in ion traps and in
spin chains; the

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simplest schemes
The Theory Of Np
for quantum error
Completeness
correction;
Series Of Books In
correction of errors
The Mathematical
caused by imperfect
Sciences
resonant pulses;
correction of errors
caused by the
nonresonant actions
of a pulse; and
numerical
simulations of
dynamical behavior

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Computers And
Intractability A To
of the quantum
Control-Not gate. An
overview of some
basic elements of
computer science is
presented, including
the Turing machine,
Boolean algebra,
and logic gates. The
required quantum
ideas are explained.
The classical theory
of computation has

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its origins in the
The Theory Of Np
work of Goedel,
Completeness
Turing, Church, and
Series Of Books In
Kleene and has
The Mathematical
been an
Series In
extraordinarily
successful
framework for
theoretical computer
science. The thesis
of this book,
however, is that it
provides an

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inadequate
The Theory Of Np
foundation for
Completeness
modern scientific
Series Of Books In
computation where
The Mathematical
most of the
Sciences
algorithms are real
number algorithms.
The goal of this
book is to develop a
formal theory of
computation which
integrates major
themes of the

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classical theory and
The Theory Of Np
which is more
Completeness
directly applicable to
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problems in
The Mathematical
mathematics,
Sciences
numerical analysis,
and scientific
computing. Along
the way, the authors
consider such
fundamental
problems as: * Is the
Mandelbrot set

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decidable? * For
The Theory Of Np
simple quadratic
Completeness
maps, is the Julia
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set a halting set? *
The Mathematical
What is the real
Series
complexity of
Newton's method? *
Is there an algorithm
for deciding the
knapsack problem
in a polynomial
number of steps? *
Is the Hilbert

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Nullstellensatz
The Theory Of No
intractable? * Is the
Completeness
problem of locating
Series Of Books In
a real zero of a
The Mathematical
degree four
Symposium
polynomial
intractable? * Is
linear programming
tractable over the
reals? The book is
divided into three
parts: The first part
provides an

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extensive
The Theory Of Np
introduction and
Completeness
then proves the
Series Of Books In
fundamental NP-
The Mathematical
completeness
Series
theorems of Cook-
Karp and their
extensions to more
general number
fields as the real
and complex
numbers. The later
parts of the book

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develop a formal
The Theory Of Np
theory of
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computation which
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integrates major
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themes of the
Science
classical theory and
which is more
directly applicable to
problems in
mathematics,
numerical analysis,
and scientific
computing.

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Completeness
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Computing Books In
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Computation
The Mathematical
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Practice
Parameterized
Complexity Theory
The Pattern On The
Stone

We also give

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algorithms for
The Theory Of Np
learning
Completeness
powerful
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concept classes
The Mathematical
under the
Sciences
uniform
distribution,
and give
equivalences
between natural
models of
efficient
learnability.

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This thesis
The Theory Of Np
also includes
Completeness
detailed
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definitions and
The Mathematical
motivation for
Subjects
the distributio
n-free model, a
chapter
discussing past
research in
this model and
related models,
and a short

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list of
The Theory Of Np
important open
Completeness
problems."
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This book is a
The Mathematical
state-of-the-
art
Sciences
introduction
into both
algorithmic
techniques for
fixed-parameter
tractability
and the

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structural
The Theory Of Np
theory of
Completeness
parameterized
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complexity
The Mathematical
classes. It
Science
presents
detailed proofs
of recent
advanced
results that
have not
appeared in
book form

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before and
The Theory Of Np
replaces the
Completeness
earlier
Series Of Books In
publication
The Mathematical
"Parameterized
Complexity" by
Downey and
Fellows as the
definitive book
on this
subject. The
book will
interest

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computer
The Theory Of Np
scientists,
Completeness
mathematicians
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and graduate
The Mathematical
students
Series
engaged with
algorithms and
problem
complexity.
The first
unified
introduction
and reference

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Intractability A To
for the field
of The Theory Of Np
Completeness
Series Of Books In
The Mathematical

Virtually non-
existent only

25 years ago,
computational
complexity has
expanded
tremendously
and now
comprises a

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Intractability: A To
major part of
The Theory Of Np
the research
Completeness
activity in
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theoretical
The Mathematical
science.

The P-NP

problem is the
most important
open problem in
computer
science, if not
all of
mathematics.

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Simply stated,
The Theory Of Np
it asks whether
Completeness
every problem
Series Of Books In
whose solution
The Mathematical
can be quickly
Sciences
checked by
computer can
also be quickly
solved by
computer. The
Golden Ticket
provides a
nontechnical

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introduction to
The Theory Of Np
P-NP, its rich
Completeness
history, and
Series Of Books In
its algorithmic
The Mathematical
implications
Science
for everything
we do with
computers and
beyond. Lance
Fortnow traces
the history and
development of
P-NP, giving

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examples from a
The Theory Of Np
variety of
Completeness
disciplines,
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including
The Mathematical
economics,
Sciences
physics, and
biology. He
explores
problems that
capture the
full difficulty
of the P-NP
dilemma, from

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Sciences
discovering the
shortest route
through all the
rides at Disney
World to
finding large
groups of
friends on
Facebook. The
Golden Ticket
explores what
we truly can
and cannot

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achieve computa
tionally,
The Theory Of Np
Completeness
describing the
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benefits and
The Mathematical
unexpected
challenges of
this compelling
problem.

Elements of
Quantum
Computing
Computability,
Complexity, and

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Languages
The Theory Of Np
A Practical
Completeness
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Theory of
The Mathematical
Computation
The Simple
Ideas That Make
Computers Work
Bioinspired
Computation in
Combinatorial
Optimization
Computers and

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Sciences

Intractability
David Harel
explains and
illustrates one of
the most
fundamental, yet
under-exposed
facets of
computers - their
inherent
limitations.
The transition

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from serial to
The Theory Of No
parallel computing
Completeness
in which many
Series Of Books In
operations are
The Mathematical
performed
Sciences
simultaneously
and at
tremendous
speed, marks a
new era in
computation.
These original

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essays explore the
The Theory Of Np
emerging
Completeness
modalities and
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potential impact
The Mathematical
of this
Sciences
technological
revolution. Daniel
Hillis, inventor of
the superfast
Connection
Machine, provides
a clear

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explanation of
The Theory Of No
massively parallel
Completeness
computing. The
Series Of Books In
essays that follow
The Mathematical
investigate the
Sciences
rich possibilities,
as well as the
constraints, that
parallel
computation holds
for the future.
These possibilities

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include its
The Theory Of Np
tremendous
Completeness
potential for
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simulating
The Mathematical
currently
Sciences
intractable
physical processes
and for solving
"monster"
scientific problems
(involving new
algorithms and

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ways of thinking
The Theory Of Np
about problem
Completeness
Solving that will
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change the way
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we think about the
Sciences
world), and its use
in the neural
sciences (where
the biological
model for parallel
computation is the
brain). Essays also

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Computers And
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address the gap
The Theory Of Np
between the
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promise of this
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new technology
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and our current
Sciences
educational
system and look
at America's
technological
agenda for the
1990s. Daniel
Hillis is Chief

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Scientist and
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James Bailey is
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Director of
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Marketing, both at
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Thinking Machines
Sciences
Corporation.

Selected Essays:
Preface, Stephen
R. Graubard. What
is Massively
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Computing, and

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Daniel Hillis.
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Computing,
Yuefan Deng,
James Glimm,
David H. Sharp.

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Parallel Billiards
The Theory Of Np
and Monster
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Systems, Brosl
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Hasslacher. First
The Mathematical
We Reshape Our
Sciences
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scientist, staring
at a screen and
clicking away**

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hacking into a
system, or
perhaps
developing an
app. Now delete
that picture. In
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Erwig explains
computation as
something that**

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problem solving.
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that many daily
activities involve
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Getting up in the
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**example: You get
up, take a
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dressed, eat
breakfast. This
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routine solves a
recurring
problem through
a series of well-
defined steps. In
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science, such a**

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**routine is called
an algorithm.
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computing with
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daily life and
familiar stories.
Hansel and
Gretel, for
example, execute
an algorithm to**

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the forest. The
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Day illustrates
the problem of
unsolvability;
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manipulates data
structures when
solving a crime;
the magic in
Harry Potter's
world is**

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**understood
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complexity of
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enables
readers to
understand:
**What does it
mean for a
problem to be
unsolvable or
to be NP-**

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complete? What
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is meant by a
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computation
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and what is a
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general model
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of a computer?
What does it
mean for an
algorithm to
exist and what
kinds of
problems have

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no algorithm?
The Theory Of No
What problems
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have
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algorithms but
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the algorithm
Sciences
may take
centuries to
finish?
Developed from
the authors'
course on
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complexity
The Theory Of Np
theory, the
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text is
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undergraduate
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students
without a
strong
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theoretical
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science. Each
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chapter
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presents the
fundamentals,
examples,
complete
proofs of
theorems, and
a wide range
of exercises.

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Neural
networks
usually work
adequately on
small problems
but can run
into trouble
when they are
scaled up to
problems
involving
large amounts

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of input data.
The Theory Of Np
Circuit
Completeness
Complexity and
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The Mathematical
Networks
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addresses the
important
question of
how well
neural
networks scale
- that is, how

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fast the
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computation
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time and
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number of
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neurons grow
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as the problem
size
increases. It
surveys recent
research in
circuit
complexity (a

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robust branch
The Theory Of No
of theoretical
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computer
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science) and
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applies this
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work to a
theoretical
understanding
of the problem
of
scalability.
Most research

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in neural
networks
focuses on
learning, yet
it is
important to
understand the
physical
limitations of
the network
before the
resources

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needed to
solve a
certain
problem can be
calculated.
One of the
aims of this
book is to
compare the
complexity of
neural
networks and

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the complexity
of
The Theory Of Np
Completeness
conventional
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computers,
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looking at the
Sciences
computational
ability and
resources
(neurons and
time) that are
a necessary
part of the

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foundations of
The Theory Of Np
neural network
Completeness
learning.
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The Mathematical
Complexity and
Sciences
Neural
Networks
contains a
significant
amount of
background
material on

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**conventional
complexity
theory that
will enable
neural network
scientists to
learn about
how complexity
theory applies
to their
discipline,
and allow**

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complexity
The Theory Of Np
theorists to
Completeness
see how their
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discipline
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applies to
Sciences
neural
networks.
Computational
complexity is
one of the
most beautiful
fields of

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modern
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mathematics,
Completeness
and it is
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increasingly
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relevant to
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other sciences
ranging from
physics to
biology. But
this beauty is
often buried
underneath

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layers of
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unnecessary
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formalism, and
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exciting
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recent results
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like
interactive
proofs, phase
transitions,
and quantum
computing are
usually

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considered too
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advanced for
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the typical
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student. This
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book bridges
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these gaps by
explaining the
deep ideas of
theoretical
computer
science in a
clear and

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enjoyable
fashion,
making them
accessible to
non-computer
scientists and
to computer
scientists who
finally want
to appreciate
their field
from a new

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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

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resolve. They
then lead the
reader through
the complexity
of mazes and
games;
optimization
in theory and
practice;
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algorithms,
interactive

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proofs, and ps
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eudorandomness
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; Markov
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chains and
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phase
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transitions;
and the outer
reaches of
quantum
computing. At
every turn,
they use a

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**minimum of
formalism,
providing
explanations
that are both
deep and
accessible.
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intended for
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undergraduate
students,**

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scientists
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from other
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areas who have
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long wanted to
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understand
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this subject,
and experts
who want to
fall in love
with this
field all over
again.

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complexity
theory, its
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with
mathematics,
and its central
role in the
natural and
social sciences,
technology, and**

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study of

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industry,
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theory has
evolved into a
highly

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areas and to a
growing
number of
scientific
endeavors. Avi
Wigderson
takes a
sweeping

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**survey of
complexity
theory,
emphasizing
the field's
insights and
challenges. He
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ideas and
motivations
leading to key
models,
notions, and**

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results. In
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particular, he
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computations
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randomness
and interaction,
quantum and
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computation,
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with numerous
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cross-
influences.
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illustrates the
immense
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and richness,

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and growing
interactions
with other
areas of
mathematics.**
He ends with a
comprehensive
look at the
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computation,
its
methodology

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has shaped and
will further
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technology, and
society. For
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bibliography is**

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related fields,**

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level, intuitive
exposition,
which brings
conceptual
clarity to this
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accounts of the
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concepts and
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**influence on
science,
technology, and
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**Extensive
bibliography**
The authors
show that there
are underlying
mathematical
reasons for why
games and
puzzles are

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challenging
(and perhaps
why they are so
much fun).
They also show
that games and
puzzles can
serve as
powerful
models of comp
utation-quite
different from
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science that
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together
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comprise the
heart of the
field. He
condenses a
great deal of
complex
material into a
manageable,

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accessible
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form. His
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treatment of
programming,
for example,
presents only a
few features of
Pascal and
restricts all
programs to
those
constructions.
Yet most of the

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important
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lessons in
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programming
can be taught
within these
limitations. The
student's
knowledge of
programming
then provides
the basis for
understanding
ideas in

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compilation,
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systems,
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theory, noncom
S
putability, and
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possible, the
author uses
common words
instead of the
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**vocabulary that
might confuse
readers.**
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**book will learn
to write a
variety of
programs in
Pascal, design
switching
circuits, study a
variety of Von
Neumann and**

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parallel
architectures,
hand simulate a
computer,
examine the
mechanisms of
an operating
system, classify
various
computations
as tractable or
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learn about non

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problems are
everywhere, from
traditional

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**operations research
planning
(scheduling, facility
location and network
design); to computer
science databases; to
advertising issues in
viral marketing. Yet
most such problems
are NP-hard; unless
 $P = NP$, there are no
efficient algorithms
to find optimal**

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problems, with more
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sophisticated
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treatment in the
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The Mathematical
book also covers
Science
methods for proving
that optimization
problems are hard to
approximate.
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heuristic solution of
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that mathematics
does not provide the
most appropriate

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conceptual
foundations for
computer science,
but, rather, that
these foundations are
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complexity and
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supports that there is
a more appropriate
conceptual model
that unifies forms of

**expression
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