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The book focuses on the technology of installation, maintenance, replacement and removal of manufacturing

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machinery and transportation equipment. Areas covered include industrial management, reliability, technical diagnostics, materials science, design of experiments, tribology and technical

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safety.

Keywords:

Terotechnology,

Manufacturing

Machinery,

Transportation

Equipment, Spool

Control Valves,

CFD Simulation,

Turbine Nozzle

Outlet, Foundry

Simulation

Codes, Risk

Assessment, Flow

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Control Valves,
Hydraulic Drive
and Control
Systems, Bearing
Housing, Defects
in Metal Matrix
Composites,
Controlling Cast
Iron Foundry,
Camouflage
Colors, Erosion
Blasting, Fuzzy
Logic in
Databases, Urban

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Traffic Noise,
Machining of
Metal Matrix
Composites,
Laser Cutting
Methods, UV
Laser Micro
Machining,
Simulation of
Flow Control,
Bearing Housing,
Plasma Cutting,
Electrical
Discharge

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Machining,
Decarburization
of Rails, Bogie
Frame Strength,
Multi Sensor
Detection
System, DLC
Coatings,
Horizontal
Meshed Heaters,
Underground
Composite
Pressure Pipes,
Diagnostic

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Process of
Castings, Toxic
Gases Emission,
Floor Materials
in Rolling
Stock, Railway
Rubber Products,
Electric Cables
and Wires, Anti-
Graffiti
Coatings,
Defects in
Rails, Screw
Coupling 1MN,

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Laser Welding of
Girth Joint,
Combustion
Chamber of a
Piston.

to the
Fundamental and
Applied
Catalysis Series
Catalysis is
important
academically and
industrially. It
plays an

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essential role in the manufacture of a wide range of products, from gasoline and plastics to fertilizers and herbicides, which would otherwise be unobtainable or prohibitively expensive. There

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are few chemical-
or oil-based
material items
in modern
society that do
not depend in
some way on a
catalytic stage
in their
manufacture.
Apart from
manufacturing
processes,
catalysis is

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finding other
important and
over-increasing
uses; for
example,
successful
applications of
catalysis in the
control
of pollution and
its use in
environmental
control are
certain to in

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crease in the
future. The
commercial
import an ce of
catalysis and
the diverse
intellectual
challenges of
catalytic
phenomena have
stimulated study
by a broad
spectrum of
scientists

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including
chemists,
physicists,
chemical
engineers, and
material
scientists.
Increasing
research
activity over
the years has
brought deeper
levels of
understanding,

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and these have been associated with a continually growing amount of published material. As recently as sixty years ago, Rideal and Taylor could still treat the subject comprehensively

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in a single volume, but by the 19 50s Emmett required six volumes, and no conventional multivolume text could now cover the whole of catalysis in any depth.

This book uses a "learn by doing" approach to

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introduce the concepts and techniques of VHDL and FPGA to designers through a series of hands-on experiments. FPGA Prototyping by VHDL Examples provides a collection of clear, easy-to-follow templates

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for quick code development; a large number of practical examples to illustrate and reinforce the concepts and design techniques; realistic projects that can be implemented and

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tested on a
Xilinx
prototyping
board; and a
thorough
exploration of
the Xilinx
PicoBlaze soft-
core
microcontroller.
"The fourth
edition of
Elements of
Chemical

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Reaction

Engineering is a completely revised version of the book. It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on

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critical thinking and creative problem solving, employing open-ended questions and stressing the Socratic method. Clear and organized, it integrates text, visuals, and computer simulations to

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help readers
solve even the
most challenging
problems through
reasoning,
rather than by
memorizing equat
ions."--BOOK
JACKET.

RTL Hardware
Design Using
VHDL
Introduction to
Random Matrices

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Aerospace
Engineering e-
Mega Reference
Engineering
Mechanics
Introduction to
Differential
Equations Using
Sage
Density Matrix
and Product
Operator
Treatment

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*developments
of Random
Matrix Theory
as well as
pedagogical
approaches to
the standard
core of the
discipline are
surprisingly
hard to find
in a well-*

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*organized,
readable and
user-friendly
fashion. This
slim and agile
book, written
in a
pedagogical
and hands-on
style, without
sacrificing
formal rigor*

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fills this gap. It brings Ph.D. students in Physics, as well as more senior practitioners, through the standard tools and results on random matrices, with

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an eye on most recent developments that are not usually covered in introductory texts. The focus is mainly on random matrices with

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real

spectrum. The main guiding threads throughout the book are the Gaussian Ensembles. In particular, Wigner's semicircle law is derived

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multiple times to illustrate several techniques (e.g., Coulomb gas approach, replica theory). Most chapters are accompanied by Matlab codes (stored in an

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online

*repository) to
guide readers
through the
numerical
check of most
analytical
results.*

*Computations
in Algebraic
Geometry with
Macaulay*

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2Springer

Science &

Business Media

The Geothermal

Direct Use

Engineering

and Design

Guidebook is

designed to be

a

comprehensive,

thoroughly

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*practical
reference
guide for
engineers and
designers of
direct heat
projects.*

*These projects
could include
the conversion
of geothermal
energy into*

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*space heating
cooling of
buildings,
district
heating,
greenhouse
heating,
aquaculture
and industrial
processing.*

*The Guidebook
is directed at*

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*understanding
the nature of
geothermal
resources and
the
exploration of
these
resources,
fluid sampling
techniques,
drilling, and
completion of*

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*geothermal
wells through
well testing,
and reservoir
evaluation. It
presents
information
useful to
engineers on
the
specification
of equipment*

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*including well
pumps, piping,
heat
exchangers,
space heating
equipment,
heat pumps and
absorption
refrigeration.
A compilation
of current
information*

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about

*greenhouse,
aquaculture
and industrial
applications
is included
together with
a discussion
of engineering
cost analysis,
regulation
requirements,*

Online Library Scalar I40 And I80 Users Guide *and*

*environmental
considerations
. The purpose
of the
Guidebook is
to provide an
integrated
view for the
development of
direct use
projects for*

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*which there is
a very
potential in
the United
States.*

*The skills and
guidance
needed to
master RTL
hardware
design This
book teaches*

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*readers how to
systematically
design efficient,
portable,
and scalable*

Register

*Transfer Level
(RTL) digital
circuits using
the VHDL*

hardware

description

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language and synthesis software. Focusing on the module-level design, which is composed of functional units, routing circuit, and storage, the book illustrates

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the

relationship

between the

VHDL

constructs and

the underlying

hardware

components,

and shows how

to develop

codes

that faithfully

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*reflect the
module-level
design and can
be synthesized
into efficient
gate-level imp
lementation.
Several unique
features
distinguish
the book: **

Coding style

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*that shows a
clear
relationship
between
VHDLconstructs
and hardware
components *
Conceptual
diagrams that
illustrate the
realization of
VHDLcodes **

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*Emphasis on
the code reuse
* Practical
examples that
demonstrate
and reinforce
design concepts
, procedures,
and techniques
* Two chapters
on realizing
sequential*

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*algorithms in hardware * Two chapters on scalable and parameterized designs and coding * One chapter covering the synchronization and interface between multiple*

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e clock

domains

Although the focus of the book is RTL synthesis, it also examines the synthesis task from the perspective of the overall de

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velopment process. Readers learn good design practices and guidelines to ensure that an RTL design can accommodate future simulation, verification,

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on, and testing needs, and can be easily incorporated into a larger system or reused. Discussion is independent of technology and can be applied to

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*both ASIC and
FPGA devices.
With a
balanced
presentation
of
fundamentals
and practical
examples, this
is an
excellent
textbook for u*

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*pper-level unde
rgraduate or
graduate
courses in
advanced
digital logic.
Engineers who
need to make
effective use
of today's syn
thesis software
and FPGA*

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*devices should
also refer to
this book.*

*Digital Signal
Processing*

*Using MATLAB &
Wavelets*

Xilinx

Spartan-3

Version

Intelligent

Mechatronic

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Systems

*Power System
Restructuring
and
Deregulation
Terotechnology
XI*

*Topological Ge
ometrodynamics
This book
presents
algorithmic*

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*tools for
algebraic
geometry, with
experimental
applications. It
also introduces
Macaulay 2, a
computer algebra
system
supporting
research in
algebraic
geometry,
commutative*

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*algebra, and
their
applications.
The algorithmic
tools presented
here are
designed to
serve readers
wishing to bring
such tools to
bear on their
own problems.
The first part
of the book*

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*covers Macaulay
2 using concrete
applications;
the second
emphasizes
details of the
mathematics.*

*Topological
geometro-dynamics
(TGD) is a
modification of
the theory of
general
relativity*

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inspired by the problems related to the definition of inertial and gravitational energies in the earlier hypotheses. TGD is also a generalization of super string models. TGD brings forth an

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*elegant
theoretical
projection of
reality and
builds upon the
work by renowned
scientists
(Wheeler,
Feynman,
Penrose,
Einstein,
Josephson to
name a few). In
TGD, Physical*

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*space-time
planes are
visualized as
four-dimensional
surfaces in a
certain
8-dimensional
space (H). The
choice of H is
fixed by
symmetries of
standard model
and leads to a
geometric*

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*mapping of known
classical fields
and elementary
particle
numbers. TGD
differs from
Einstein's
geometrodynamics
in the way space-
time planes or
'sheets' are
lumped together.
Extending the
theory based on*

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*fusing number
concepts implies
a further
generalisation
of the space-
time concept
allowing the
identification
of space-time
correlates of
cognition and
intentionality.
Additionally,
zero energy*

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ontology forces
an extension of
quantum
measurement
theory to a
theory of
consciousness
and a hierarchy
of phases is
identified. Dark
matter is thus
predicted with
far reaching
implications for

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the

*understanding of
consciousness
and living
systems.*

*Therefore, it
sets a solid
foundation for
modeling our
universe in
geometric terms.
Topological Geom
etrodynamics: An
Overview*

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*explains basic
and advanced
concepts about
TGD. The book
covers
introductory
information and
classical TGD
concepts before
delving into
twistor-space
theory, particle
physics, infinit
e-dimensional*

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*spinor geometry,
generalized
number theory,
Planck
constants, and
the applications
of TGD theory in
research. The
book is a
valuable guide
to TDG theory
for researchers
and advanced
graduates in*

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*theoretical
physics and
cosmology.
At present,
there is
considerable
interest in
supercritical
wing technology
for the
development of
aircraft
designed to fly
near the speed*

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of sound. The basic principle is the suppression of boundary layer separation by shifting the shock waves that occur on the wing toward the trailing edge and making them as weak as possible. The

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*purpose of this
report is to
make available
to the
engineering
public
mathematical
methods for the
design of
supercritical
wings. These
methods depend
on the numerical
solution of the*

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partial

differential

equations of two-

dimensional gas

dynamics. The

main

contribution is

a computer

program for the

design of

shockless

transonic

airfoils using

the hodograph

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*transformation
and analytic
continuation
into the complex
domain. Another
contribution is
a program for
the analysis of
transonic flow
with shocks past
an airfoil at
off-design
conditions. In
our design work*

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*we include a
turbulent
boundary layer
correction. Part
I of the paper
is devoted to a
description of
the mathemati
cal theory and
need not be
studied by those
primarily
concerned with
running the*

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programs. Part II is a manual for users of our programs which is independent of the theoretical part. In Part III and in Appendices II and III we give numerical examples and discuss computa

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tional results.

The main substance of the report, however, is contained in the listing of the computer programs themselves in Appendix IV. We have used the Fortran language throughout and we have included

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numerous comment
cards in the
listing.

This primer
proposes a
journey from
Newton's
dynamics to
Einstein's
relativity. It
constitutes a
pedagogical,
rigorous, and
self-contained

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introduction to the concepts and mathematical formulation of gravitational physics. In particular, much attention is devoted to exploring and applying the basic tools of differential geometry, that

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is the language of general relativity. Real-world manifestations of relativity, such as time dilation, gravitational waves, and black holes, are also discussed in detail. This book is designed

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*for third-year
bachelor or
first-year
master students
in theoretical
physics, who are
already familiar
with Newton's
physics,
possibly had an
introductory
course on
special
relativity, and*

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who are seeking
to learn general
relativity on a
firm basis.

*Computations in
Algebraic*

*Geometry with
Macaulay 2*

Engineering

*Fundamentals: An
Introduction to
Engineering, SI
Edition*

Introduction to

Online Library Scalar I40 And I80 Users Guide

Grothendieck

Duality Theory

Geothermal

Direct Use

Engineering and

Design Guidebook

Schaum's Outline

of Mathematical

Methods for

Business and

Economics

Grokking Deep

Learning

Written by one of the

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most successful aerospace authors, this new book develops aircraft performance techniques from first principles and applies them to real airplanes. It also address a philosophy of, and techniques for aircraft design. By developing and discussing these two

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subjects in a single text, the author captures a degree of synergism not found in other texts. The book is written in a conversational style, a trademark of all of John Anderson's texts, to enhance the readers' understanding. David Joyner and Marshall Hampton 's

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lucid textbook explains differential equations using the free and open-source mathematical software Sage. Since its release in 2005, Sage has acquired a substantial following among mathematicians, but its first user was Joyner, who is credited with helping

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famed mathematician William Stein turn the program into a usable and popular choice.

Introduction to Differential Equations Using Sage extends Stein's work by creating a classroom tool that allows both differential equations and Sage to be taught concurrently. It ' s a creative and forward-

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thinking approach to
math instruction.

Topics include: •

First-Order

Differential Equations

• Incorporation of

Newtonian

Mechanics• Second-

Order Differential

Equations• The

Annihilator Method•

Using Linear Algebra

with Differential

Equations•

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Nonlinear Systems•
Partial Differential
Equations• Romeo
and Juliet

Grothendieck ' s
beautiful theory of
schemes permeates
modern algebraic
geometry and
underlies its
applications to
number theory,
physics, and applied
mathematics. This

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simple account of that theory emphasizes and explains the universal geometric concepts behind the definitions. In the book, concepts are illustrated with fundamental examples, and explicit calculations show how the constructions of scheme theory are

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carried out in
practice.

Specifically designed
as an introduction to
the exciting world of
engineering,
ENGINEERING
FUNDAMENTALS: AN
INTRODUCTION TO
ENGINEERING
encourages students
to become engineers
and prepares them
with a solid

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foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an

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introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply

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physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students

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are on their way to becoming analytical, detail-oriented, and creative engineers.

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FPGA Prototyping by
VHDL Examples
Decommissioning of

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Pools in Nuclear
Facilities

Principles and
Applications

Control System
Design

A Theory of
Supercritical Wing
Sections, with

Computer Programs
and Examples

Introduction to
Probability

Over the past several

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decades, much progress has been made in understanding the mechanisms of electrical activity in biological tissues and systems, and for developing non-invasive functional imaging technologies to aid clinical

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diagnosis of
dysfunction in the
human body. The
book will provide
full basic coverage
of the fundamentals
of modeling of
electrical activity in
various human
organs, such as heart
and brain. It will
include details of

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bioelectromagnetic measurements and source imaging technologies, as well as biomedical applications. The book will review the latest trends in the field and comment on the future direction in this fast developing line of

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research.

Although Digital
Signal Processing
(DSP) has long been
considered an
electrical
engineering topic,
recent developments
have also generated
significant interest
from the computer
science community.

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DSP applications in the consumer market, such as bioinformatics, the MP3 audio format, and MPEG-based cable/satellite television have fueled a desire to understand this technology outside of hardware circles.

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Designed for upper division engineering and computer science students as well as practicing engineers and scientists, Digital Signal Processing Using MATLAB & Wavelets, Second Edition emphasizes the practical

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applications of signal processing. Over 100 MATLAB examples and wavelet techniques provide the latest applications of DSP, including image processing, games, filters, transforms, networking, parallel processing, and

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sound. This Second Edition also provides the mathematical processes and techniques needed to ensure an understanding of DSP theory.

Designed to be incremental in difficulty, the book will benefit readers

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who are unfamiliar
with complex
mathematical topics
or those limited in
programming
experience.

Beginning with an
introduction to

MATLAB

programming, it
moves through
filters, sinusoids,

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sampling, the
Fourier transform,
the z-transform and
other key topics.
Two chapters are
dedicated to the
discussion of
wavelets and their
applications. A CD-
ROM (platform
independent)
accompanies the

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book and contains source code, projects for each chapter, and the figures from the book.

Explains the density matrix used to describe two-dimensional nuclear magnetic resonance, and discusses pulse effects and

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refocusing routines

During the past decade there has been a renewed interest in active sonar systems at both low and medium frequencies. More recently this interest has been extended to very high frequencies in

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shallow water.

Reverberation often limits the detection performance of these systems, and there is a need to understand the underlying mechanisms that cause the scattering. With more emphasis being given to reverberation

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phenomena in the
Scientific Program
of Work at the
SACLANT
Undersea Research
Centre, it was
considered an
opportune time to
host a meeting,
bringing together
scientists from
NATO countries to

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foster cross-
disciplinary dialogue
and generate ideas
for new research
directions.

Consequently the
Ocean Reverberation
Symposium was held
25-29 May 1992 in
La Spezia, Italy.

Over 60
presentations were

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made on a diverse selection of topics, of which ten papers will be published as a SACLANTCEN Conference Proceedings. The papers in this volume are grouped into 8 sections, usually in the same order as presented at the

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corresponding

session of the

Symposium: Section

1 - Scattering

Mechanisms Section

2 - High Frequency

Measurements and

Mechanisms Section

3 - Reverberation

Modelling Section 4

- ARSRP Mid-

Atlantic Ridge

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Experiment Section

5 - Low Frequency
Measurements

Section 6 - Volume
Scattering Section 7

- Signal Processing

Issues Section 8 -

Applications Taken

together the papers
show some emerging

trends in the

research.

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The Geometry of
Schemes
Advanced
Mechanics of
Materials
Electronic Databook
Looking in
Classrooms
Coding for
Efficiency,
Portability, and
Scalability

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Elements of
Chemical Reaction
Engineering
*Written at a level
appropriate to
undergraduates,
this book covers
such topics as the
Hilbert Basis
Theorem, the
Nullstellensatz,
invariant theory,*

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*projective
geometry, and
dimension theory.
Contains a new
section on Axiom
and an update
about MAPLE,
Mathematica and
REDUCE.*

*The restructuring
and deregulation of
the power utility
industry is*

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resulting in significant competitive, technological and regulatory changes. Independent power producers, power marketers and brokers have added a new and significant dimension to the task of maintaining

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a reliable electric system. Power System Restructuring and Deregulation provides comprehensive coverage of the technological advances, which have helped redesign the ways in which utility

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companies manage their business. With the aid of practical case studies, an international panel of contributors address the most up to date problems and their solutions in a cohesive manner, making this book indispensable to

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*graduates and
engineers in the
power industry
field. Presents state
of the art
techniques in
power industry
restructuring
Includes
applications of new
technology in
power industry
deregulation*

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*Includes practical
examples of
changes in load
forecasting
techniques and
methods*

*International
contributors offer a
global perspective
detailing power
utility restructuring
and deregulation
from various*

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countries

*Summary Grokking
Deep Learning
teaches you to
build deep learning
neural networks
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*deep learning
About the Reader
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programming skills.
About the Author
Andrew Trask is a
PhD student at
Oxford University
and a research
scientist at*

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DeepMind.

Previously, Andrew was a researcher and analytics product manager at Digital Reasoning, where he trained the world's largest artificial neural network and helped guide the analytics roadmap for the Synthesys cognitive

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