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A Networked
Self examines
self presentation
and social
connection in the
digital age. This
collection brings
together new
work on online

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social networks
by leading
scholars from a
variety of
disciplines. The
focus of the
volume rests on
the construction
of the self, and
what happens to
self-identity
when it is

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presented
through
networks of
social
connections in
new media
environments.
The volume is
structured
around the core
themes of
identity,

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community, and culture – the central themes of social network sites.

Contributors address theory, research, and practical implications of many aspects of online social

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networks
including self-
presentation,
behavioral
norms, patterns
and routines,
social impact,
privacy,
class/gender/rac
e divides, taste
cultures online,
uses of social

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networking sites
within
organizations,
activism, civic
engagement and
political impact.

Textbook
concisely
introduces
engineering
thermodynamics,
covering

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concepts

including energy,

entropy,

equilibrium and

reversibility

Novel

explanation of

entropy and the

second law of

thermodynamics

Presents

abstract ideas in

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an easy to
understand
manner Includes
solved examples
and end of
chapter problems
Accompanied by
a website
hosting a
solutions manual
Includes entries
for maps and

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atlases.

Accessible but rigorous, this outstanding text encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers

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an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional

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exercises to
improve student
familiarity with
applications.

1990 edition.

National Union
Catalog

Atlas of Zeolite
Framework

Types

PC Magazine

Materials

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Characterization
Cassino to the
Alps

IAMSAR Manual
Zeolite

**scientists,
whether they are
working in
synthesis,
catalysis,
characterization
or application
development,**

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use the Atlas of Zeolite Framework Types as a reference. It describes the main features of all of the confirmed zeolite framework structures, and gives references to the relevant primary

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structural literature. Since the last edition 34 more framework types have been approved and are described in this new edition. A further new feature will be that characteristic building units

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will be listed for each of the framework types. Zeolites and their analogs are used as desiccants, as water softeners, as shape-selective acid catalysts, as molecular sieves, as concentrators of radioactive

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isotopes, as blood clotting agents, and even as additives to animal feeds. Recently, their suitability as hosts for nanometer spacing of atomic clusters has also been demonstrated. These diverse

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applications are a reflection of the fascinating structures of these microporous materials. Each time a new zeolite framework structure is reported, it is examined by the Structure

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**Commission of
the International
Zeolite
Association (IZA-
SC), and if it is
found to be
unique and to
conform to the
IZA-SC's
definition of a
zeolite, it is
assigned a
3-letter
framework type**

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code. This code is part of the official IUPAC nomenclature for microporous materials. The Atlas of Zeolite Framework Types is essentially a compilation of data for each of these confirmed framework

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types. These data include a stereo drawing showing the framework connectivity, features that characterize the idealized framework structure, a list of materials with this framework type, information

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on the type material that was used to establish the framework type, and stereo drawings of the pore openings of the type material. * Clear stereo drawings of each of the framework types

*** Description of**

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**the features of
the framework
type, allowing
readers to
quickly see if the
framework type
is suitable to
their needs ***
**References to
isotypic
materials,
readers can
quickly identify
related materials**

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and consult the appropriate reference Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has,

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**during the
intervening
period, been
revised and
reprinted several
times. The
authors have,
however, been
thinking, for the
last few years
that the book
needed not only
a thorough
revision but**

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rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in

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the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has

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been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the

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pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally

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written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only

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**in the syllabi
and/or the
pattern of
examination
papers of
numerous
universities.
Knowledge
updating is a
never-ending
process and so
should be the
revision of an
effective**

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a thorough
revision but
rather a
substantial
rewriting. They
now take great
pleasure in
presenting to the
readers the
twelfth,
thoroughly
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enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions

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in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those

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changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate

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Random Variable
2. Approximate
Expression for
Expectation and
Variance 3.
Lyapounov's
Inequality 4.
Holder's
Inequality 5.
Minkowski's
Inequality 6.
Double
Expectation Rule
or Double-E Rule

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**and many others
A fully updated
second edition of
the excellent
Digital Audio
Signal
Processing Well
established in
the consumer
electronics
industry, Digital
Audio Signal
Processing
(DASP)**

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techniques are used in audio CD, computer music and multi-media components. In addition, the applications afforded by this versatile technology now range from real-time signal processing to room simulation.

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**Digital Audio
Signal
Processing,
Second Edition
covers the latest
signal processing
algorithms for
audio
processing.
Every chapter
has been
completely
revised with an
easy to**

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**understand
introduction into
the basics and
exercises have
been included for
self testing.**

**Additional
Matlab files and
Java Applets
have been
provided on an
accompanying
website, which
support the book**

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**by easy to access
application
examples. Key
features include:
A thoroughly
updated and
revised second
edition of the
popular Digital
Audio Signal
Processing, a
comprehensive
coverage of the
topic as whole**

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Provides basic principles and fundamentals for Quantization, Filters, Dynamic Range Control, Room Simulation, Sampling Rate Conversion, and Audio Coding
Includes detailed accounts of studio

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**technology,
digital
transmission
systems, storage
media and audio
components for
home
entertainment
Contains precise
algorithm
description and
applications
Provides a full
account of the**

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**techniques of
DASP showing
their theoretical
foundations and
practical
solutions
Includes updated
computer-based
exercises, an
accompanying
website, and
features Web-
based Interactive
JAVA-Applets for**

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**audio processing
This essential
guide to digital
audio signal
processing will
serve as an
invaluable
reference to
audio
engineering
professionals,
R&D engineers,
researchers in
consumer**

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**electronics
industries and
academia, and
Hardware and
Software
developers in IT
companies.
Advanced
students
studying multi-
media courses
will also find this
guide of interest.
This handbook is**

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the only up-to-date, A to Z compilation of commercial and research zeolites. The volume presents complete patent-researched reference information on structural data, synthesis parameters, and

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characteristic properties. For each known zeolite there is an entry on all organics which crystallize a given structure, physical data, and applications. Data is presented in tabular or graphical form

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**with minimal
text, and a cross-
referenced
literature review
is provided.**

**Packet Guide to
Core Network
Protocols**

A Book of

Abstract Algebra

Commerce

Business Daily

Hyperpolarizatio

n Methods in

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NMR

Spectroscopy

Engineering

Thermofluids

Digital Audio

Signal

Processing

Among the highlights of this book are the use of nanotechnology to increase potency of available insecticides, the use of genetic

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engineering techniques for controlling insect pests, the development of novel insecticides that bind to unique biochemical receptors, the exploration of natural products as a source for environmentally acceptable insecticides, and the use of insect

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genomics and cell lines for determining biological and biochemical modes of action of new insecticides.

This volume aims to outline the fundamental principles behind leadership, innovation and entrepreneurship and show how the interrelations between

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them promote business and trade practices in the global economy. Derived from the 2016 International Conference on Leadership, Innovation, and Entrepreneurship (ICLIE), this volume showcases original papers presenting current research,

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discoveries and innovations across disciplines such as business, social sciences, engineering, health sciences and medicine. The pace of globalization is increasing at a rapid rate and is primarily driven by increasing volume of trade, accelerating pace of

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competition among nations, freer flows of capital and increased level of cooperation among trading partners. Leadership, innovation, and entrepreneurship are key driving forces in enhancing this phenomenon and are among the major catalysts for contemporary

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businesses trading in the global economy. This conference and the enclosed papers provides a platform in which to disseminate and exchange ideas to promote a better understanding of current issues and solutions to challenges in the globalized economy in relation to the fields of

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entrepreneurship, business and economics, technology management, and Islamic finance and management. Thus, the theories, research, innovations, methods and practices presented in this book will be of use to researchers, practitioners, student

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and policy makers
across the globe.

Thermofluids, while a relatively modern term, is applied to the well-established field of thermal sciences, which is comprised of various intertwined disciplines. Thus mass, momentum, and heat transfer constitute the fundamentals of th-

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fluids. This book discusses thermofluids in the context of thermodynamics, single- and two-phase flow, as well as heat transfer associated with single- and two-phase flows.

Traditionally, the field of thermal sciences is taught in universities by requiring students

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to study engineering thermodynamics, fluid mechanics, and heat transfer, in that order. In graduate school, these topics are discussed at more advanced levels. In recent years, however, there have been attempts to integrate these topics through a unified approach. This

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approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass, momentum, angular momentum, energy, and the second law of

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thermodynamics.

While integrating these topics has recently gained popularity, it is hardly a new approach. For example, Bird, Stewart, and Lightfoot in Transport Phenomena, Rohsenow and Choi in Heat, Mass, and Momentum Transfer, El- Wakil, in Nuclear

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Heat Transport, and
Todreas and Kazimi
in Nuclear Systems
have pursued a
similar approach.

These books,
however, have been
designed for
advanced graduate
level courses. More
recently,
undergraduate books
using an integral
approach are

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appearing.

Martin's Physical Pharmacy and Pharmaceutical Sciences is considered the most comprehensive text available on the application of the physical, chemical and biological principles in the pharmaceutical sciences. It helps

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students, teachers, researchers, and industrial pharmaceutical scientists use elements of biology, physics, and chemistry in their work and study. Since the first edition was published in 1960, the text has been and continues to be a required text for the

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core courses of
Pharmaceutics, Drug
Delivery, and Physical
Pharmacy. The Sixth
Edition features
expanded content on
drug delivery, solid
oral dosage forms,
pharmaceutical
polymers and
pharmaceutical
biotechnology, and
updated sections to
cover advances in

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nanotechnology.

Pressure Vessel
Handbook

Thermodynamics,
Fluid Mechanics, and
Heat Transfer

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Guide for Open
Systems

Getting the Most from
Sony's Advanced
Compact Camera
Photographer's Guide
to the Sony DSC-

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RX100 VII

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Experiments for the
Laboratory Classroom

*Your search for the
perfect polymers
textbook ends here -
with Polymer
Science and
Technology. By
incorporating an
innovative approach*

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and consolidating in one volume the fundamentals currently covered piecemeal in several books, this efficient text simplifies the learning of polymer science. The book is divided into three main sections: polymer fundamentals;

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polymer formation and conversion into useful articles; and polymer properties and applications. Polymer Science and Technology emphasizes the basic, qualitative understanding of the concepts rather than rote memorization or detailed

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mathematical analysis. Since the book focuses on the ultimate property of the finished product, it minimizes laborious descriptions of experimental procedures used for the characterization of polymers. Instead, the author

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highlights how the various stages involved in the production of the finished product influence its properties. Well-organized, clear-cut, and user-friendly, Polymer Science and Technology is an outstanding textbook for

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teaching junior and senior level undergraduates and first year graduate students in an introductory course covering the challenging subject of polymers.

The 4th revised edition expands on the basic chemistry of high energy

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*materials of the
precious editions
and examines new
research
developments,
including
hydrodynamics and
ionic liquids.
Applications in
military and civil
fields are discussed.
This work is of
interest to advanced*

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students in chemistry, materials science and engineering, as well as to all those working in defense technology.

Take an in-depth tour of core Internet protocols and learn how they work together to move data packets from

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one network to another. With this updated edition, you'll dive into the aspects of each protocol, including operation basics and security risks, and learn the function of network hardware such as switches and routers. New

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chapters examine the transmission control protocol (TCP) and user datagram protocol in detail. Ideal for beginning network engineers, each chapter in this book includes a set of review questions, as well as practical, hands-on lab

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exercises. You'll explore topics including: Basic network architecture: how protocols and functions fit together The structure and operation of the Ethernet protocol TCP/IP protocol fields, operations, and addressing

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used for networks

*The address
resolution process in
a typical IPv4
network Switches,
access points,
routers, and
components that
process packets
TCP details,
including packet
content and client-
server packet flow*

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How the Internet Control Message Protocol provides error messages during network operations How network mask (subnetting) helps determine the network The operation, structure, and common uses of the user datagram

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protocol

Abstract This IBM®

Redbooks®

publication presents

a general

introduction to the

latest IBM tape and

tape library

technologies.

Featured tape

technologies include

the IBM LTO Ultrium

and Enterprise 3592

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tape drives, and their implementation in IBM tape libraries. This 16th edition introduces the new TS1160 tape drive with up to 20 TB capacity on JE media and the latest updates to the IBM TS4500 and TS4300 tape libraries, It includes

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generalized sections about Small Computer System Interface (SCSI) and Fibre Channel connections, and multipath architecture configurations. This book also covers tools and techniques for library management. It is

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intended for anyone who wants to understand more about IBM tape products and their implementation. It is suitable for IBM clients, IBM Business Partners, IBM specialist sales representatives, and technical specialists. If you do not have a

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background in computer tape storage products, you might need to read other sources of information. In the interest of being concise, topics that are generally understood are not covered in detail.

Structures

Energy, Entropy and

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Engines

The Independent

Guide to IBM-

standard Personal

Computing

International

Aeronautical and

Maritime Search and

Rescue Manual

Insecticides Design

Using Advanced

Technologies

Physical Chemical

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and

*Biopharmaceutical
Principles in the
Pharmaceutical
Sciences*

This expansive
and practical
textbook
contains organic
chemistry
experiments for
teaching in the
laboratory at

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the
undergraduate
level covering a
range of
functional group
transformations
and key organic
reactions. The
editorial team
have collected
contributions
from around the
world and
standardized

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them for
publication.
Each experiment
will explore a
modern chemistry
scenario, such
as: sustainable
chemistry;
application in
the
pharmaceutical
industry;
catalysis and
material

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sciences, to name a few. All the experiments will be complemented with a set of questions to challenge the students and a section for the instructors, concerning the results obtained and advice on

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getting the best outcome from the experiment. A section covering practical aspects with tips and advice for the instructors, together with the results obtained in the laboratory by students, has

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been compiled for each experiment. Targeted at professors and lecturers in chemistry, this useful text will provide up to date experiments putting the science into context for the students.

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A Data-Based
Assessment of Re
search-Doctorate
Programs in the
United States
provides an
unparalleled
dataset that can
be used to
assess the
quality and
effectiveness of
doctoral
programs based

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on measures
important to
faculty,
students,
administrators,
funders, and
other
stakeholders.
The data,
collected for
the 2005-2006
academic year
from more than
5,000 doctoral

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programs at 212 universities, cover such characteristics as faculty publications, grants, and awards; student GRE scores, financial support, and employment outcomes; and program size,

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time to degree,
and faculty
composition.
Measures of
faculty and
student
diversity are
also included.
In addition to
the data, the
report contains
illustrative
ranges of
rankings for

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each program, as well as ranges of rankings for three dimensions of program quality: research activity, student support and outcomes, and diversity of the academic environment.

Accompanying the

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report is a comprehensive Data Table in Excel and a detailed explanation of the methodology used to collect data and calculate ranges of rankings. All three of these publications-the two reports and

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the Data Table spreadsheet-are available to be downloaded from this site free of charge and purchased as a set of two printed volumes and a CD. As an aid to users, the Data Table is offered with demonstrations

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of some Excel features that may enhance the usability of the spreadsheet, such as hiding and unhiding columns, copying and pasting columns to a new worksheet, and filtering and sorting data.

Also provided

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with the Data Table are a set of scenarios that show how typical users may wish to extract data from the spreadsheet. These aids are available on this site and are also included in the

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Data Table CD.

PhDs.org, an independent web site not

affiliated with the National Research

Council, has

incorporated

data from the re

search-doctorate

assessment into

its Graduate

School Guide.

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Users of the Guide can choose the weights assigned to the program characteristics measured by the National Research Council and others, and rank graduate programs according to their own

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priorities.

Although the basic theories of thermodynamics are adequately covered by a number of existing texts, there is little literature that addresses more advanced topics. In this

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comprehensive work the author redresses this balance, drawing on his twenty-five years of experience of teaching thermodynamics at undergraduate and postgraduate level, to produce a definitive text

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to cover
thoroughly,
advanced
syllabuses. The
book introduces
the basic
concepts which
apply over the
whole range of
new
technologies,
considering: a
new approach to
cycles, enabling

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their
irreversibility
to be taken into
account; a
detailed study
of combustion to
show how the
chemical energy
in a fuel is
converted into
thermal energy
and emissions;
an analysis of
fuel cells to

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give an understanding of the direct conversion of chemical energy to electrical power; a detailed study of property relationships to enable more sophisticated analyses to be made of both

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high and low temperature plant and irreversible thermodynamics, whose principles might hold a key to new ways of efficiently covering energy to power (e.g. solar energy, fuel cells).

Worked examples

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are included in most of the chapters, followed by exercises with solutions. By developing thermodynamics from an explicitly equilibrium perspective, showing how all systems attempt

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to reach a state of equilibrium, and the effects of these systems when they cannot, the result is an unparalleled insight into the more advanced considerations when converting any form of energy into

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power, that will prove invaluable to students and professional engineers of all disciplines.

This volume constitutes the refereed proceedings of the 9th International Conference on Image and Signal

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Processing,
ICISP 2020,
which was due to
be held in
Marrakesh,
Morocco, in June
2020. The
conference was
cancelled due to
the COVID-19
pandemic. The 40
revised full
papers were
carefully

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reviewed and selected from 84 submissions. The contributions presented in this volume were organized in the following topical sections:

- digital cultural heritage & color
- and spectral imaging; data

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and image
processing for
precision
agriculture;
machine learning
application and
innovation;
biomedical
imaging; deep
learning and
applications;
pattern
recognition;
segmentation and

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retrieval;
mathematical
imaging & signal
processing.

Polymer Science
and Technology

Essential

Immunology

9th

International

Conference,

ICISP 2020,

Marrakesh,

Morocco, June

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4-6, 2020,
Proceedings
The Cambridge
Handbook of
Physics Formulas
Subsystem and
Transaction
Monitoring and
Tuning with DB2
11 for z/OS
Second Edition

**Elucidating Organic
Reaction
Mechanisms using**

Page 120/181

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photo-CIDNP

**Spectroscopy, by
Martin Goetz.**

**Parahydrogen
Induced Polarization
by Homogeneous
Catalysis: Theory
and Applications, by
Kerstin Münnemann
et al. Improving
NMR and MRI
Sensitivity with
Parahydrogen, by R.
Mewis & Simon**

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Duckett. The Solid-state Photo-CIDNP Effect, by Jörg Matysik et al. Parahydrogen-induced Polarization in Heterogeneous Catalytic Processes, by Igor Koptug et al. Dynamic Nuclear Polarization Enhanced NMR Spectroscopy, by U. Akbey & H.

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**Oschkinat. Photo-
CIDNP NMR
Spectroscopy of
Amino Acids and
Proteins, by Lars T.
Kuhn.**

**This resource
covers all areas of
interest for the
practicing engineer
as well as for the
student at various
levels and
educational**

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institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed

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in detail and supported by numerous figures and tables. Surpassing its bestselling predecessors, this thoroughly updated third edition is designed to be a powerful training tool for entry-level chemistry technicians.

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**Analytical Chemistry
for Technicians,
Third Edition
explains analytical
chemistry and
instrumental
analysis principles
and how to apply
them in the real
world. A unique
feature of this
edition is that it
brings the
workplace of the**

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chemical technician into the classroom. With over 50 workplace scene sidebars, it offers stories and photographs of technicians and chemists working with the equipment or performing the techniques discussed in the text. It includes a

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**supplemental CD
that enhances
training activities.
The author
incorporates
knowledge gained
from a number of
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plants, where he determined firsthand what is important in the modern analytical laboratory. The book includes more than sixty experiments specifically relevant to the laboratory technician, along with a Questions and Problems section in each

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emerging CSS3 features Learn how to read (X)HTML document type definitions (DTDs) Apply everything in an open standards-focused fashion Thomas A. Powell is president of PINT, Inc. (pint.com), a nationally recognized Web agency. He

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**developed the Web
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text is an
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aspects of polypropylene which is the 2nd largest synthetics polymer in manufactured output. The book considers the following topics: What are the principal types of polypropylene

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***catalysts tested
and the
resultant
polymer
evaluated? What
processes are
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*This book covers
state-of-the-art
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aspects of chara
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included. Widely used techniques, such as metallography (light microscopy), X-ray diffraction, transmission and scanning electron microscopy, are described. In addition, the book introduces

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advanced techniques, including scanning probe microscopy. The second half of the book accordingly presents techniques such as X-ray energy dispersive spectroscopy (commonly

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equipped in the scanning electron microscope), fluorescence X-ray spectroscopy, and popular surface analysis techniques (XPS and SIMS). Finally, vibrational spectroscopy

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*(FTIR and Raman)
and thermal
analysis are
also covered.
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discusses in
detail the
facilities of
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***DB2 environment.
It focuses on
the use of the
DB2
instrumentation
facility
component (IFC)
to provide
monitoring of
DB2 data and
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includes
suggestions for
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We discuss the collection of statistics for the verification of performance of the various components of the DB2 system and accounting for tracking the behavior of the applications. We have intentionally

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*omitted
considerations
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modeling and

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simulation help
provide a better
understanding of
how real-world
systems function,
they also enable us
to predict system
behavior before a
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approach,
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completing this
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vital new area of
research and
development
addressing the
control, modification
and fabrication of
materials, structures
and devices with
nanometre precision
and the synthesis of

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such structures into systems of micro- and macroscopic dimensions. Future applications of nanoscale science and technology include motors smaller than the diameter of a human hair and single-celled organisms

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with sub-micrometer dimensions. These integrated circuits are now ubiquitous, controlling everything from cars to toasters. The next level of miniaturisation, beyond sub-micrometer dimensions into nanoscale

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dimensions
(invisible to the
unaided human eye)
is a booming area of
research and
development. This
is a very hot area of
research with large
amounts of venture
capital and
government funding
being invested
worldwide, as such

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Nanoscale Science and Technology has a broad appeal based upon an interdisciplinary approach, covering aspects of physics, chemistry, biology, materials science and electronic engineering. Kelsall et al present a coherent approach

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to nanoscale sciences, which will be invaluable to graduate level students and researchers and practising engineers and product designers.

This book is a complete manual for users of the Sony Cyber-shot DSC-

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RX100 VII camera, one of the most advanced, but still pocketable, cameras available. With this book, author Alexander White provides users of the RX100 VII with a guide to all aspects of the camera's operation, including its many

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advanced settings for autofocus and exposure control. Using a tutorial-like approach, the book shows beginning and intermediate photographers how to take still images and record video with the RX100 VII, and explains when and why to use the

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camera's many features. The book provides details about the camera's automatic and advanced shooting modes, including continuous shooting at rates as fast as 20 frames per second, with short bursts as fast as 90 frames per second,

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as well as its numerous menu options for shooting, playback, and setup. The book includes information about using Wi-Fi and Bluetooth connections for image transfer, remote control, and adding location information to

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images. The book has more than 500 color photographs or illustrations that help explain the camera's menus, shooting screens, and features. These images include examples of photographs taken using the RX100 VII's Scene mode,

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with settings optimized for subjects such as landscapes, sunsets, portraits, low-light, and action shots; and the Creative Style and Picture Effect menu options, with settings that alter the appearance of images. The book

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also provides introductions to topics such as street photography, astrophotography, and digiscoping, with photographic examples. The book includes a full discussion of the video features of the RX100 VII, which can shoot HD and

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4K (ultra-HD) movies, and which offers manual control of exposure and focus during movie recording. The book explains the camera's numerous features that are useful for professional-level videography, including Picture

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Profiles that allow adjustment of settings such as gamma curve, black level, knee, and detail. The book provides detailed information about recording 4K video to an external video recorder using the “clean” video output from the camera’s

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HDMI port. In three appendices, the book discusses accessories for the RX100 VII, including cases, power sources, grips, remote controls, and filter adapters, and includes a list of websites and other resources for further information. The

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book includes an appendix with “quick tips” on how to take advantage of the camera’s features in the most efficient ways possible. This guide to the RX100 VII includes a detailed index, so the reader can quickly find needed information

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about any particular feature or aspect of the camera.

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text that explains
the theory,
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