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Shahid Manzoor
Pu

Dr Shahid Manzoor Pu

The high level
of technical
detail
included in
standards
specifications
can make it
difficult to

find the correlation between the standard specifications and the theoretical results. This book aims to cover both of these elements to give

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accessible

information

and support to

readers. It

explains the

current and

future trends

on

communication

theory and

shows how

these

developments

are

implemented in

contemporary

wireless

communication

standards.

Examining

modulation,

coding and

multiple

access

techniques,
the book is
divided into
two major
sections to
cover these
functions. The
two-stage
approach first
treats the
basics of
modulation and

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coding theory

before

highlighting

how these

concepts are

defined and

implemented in

modern

wireless

communication

systems. Part

1 is devoted

Pu
to the
presentation
of main L1
procedures and
methods
including
modulation,
coding,
channel
equalization
and multiple
access

techniques. In Part 2, the uses of these procedures and methods in the wide range of wireless communication standards including WLAN, WiMax, WCDMA, HSPA,

Pub
LTE and
cdma2000 are
considered. An
essential
study of the
implementation
of modulation
and coding
techniques in
modern
standards of
wireless

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communication

Bridges the

gap between

the modulation

coding theory

and the

wireless

communications

standards

material

Divided into

two parts to

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systematically

tackle the

topic - the

first part

develops

techniques

which are then

applied and

tailored to

real world

systems in the

second part

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Covers special aspects of coding theory and how these can be effectively applied to improve the performance of wireless communications systems

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Academy

Award-winning
producer Brian
Grazer and an
acclaimed
business
journalist
examine the
weekly
"curiosity
conversations"
that have

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inspired

Grazer to

create some of

America's

favorite and

iconic movies

and television

shows—from 24

to A Beautiful

Mind.

This book

presents high-

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quality

research

papers

presented at

International

Conference on

Applications

of Networks,

Sensors and

Autonomous

Systems

Analytics

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Pub
(ICANSAA
2020), held
during
December, 11 –
12, 2020, at
JIS College of
Engineering,
Kalyani, West
Bengal, India.
The major
topics covered
are cyber-

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physical

systems and

sensor

networks, data

analytics and

autonomous

systems and

MEMS and NEMS

with

applications

in biomedical

devices. It

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includes novel
and innovative
work from
experts,
practitioners,
scientists,
and decision-
makers from
academia and
industry.

This book is a
compilation of

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Pu
various
chapters
contributed by
a group of
leading
researchers
from different
countries and
covering up to
date
information
based on

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Published
reports and
personal
experience of
authors in the
field of
cytogenetics.
Beginning with
the
introduction
of chromosome,
the subsequent

Principles of
chapters on
organization
of genetic
material,
karyotype
evolution,
structural and
numerical
variations in
chromosomes, B-
chromosomes
and

chromosomal
aberrations
provide an in-
depth
knowledge and
easy
understanding
of the subject
matter. A
special
feature of the
book is the

inclusion of a series of chapters on various types of chromosomal aberrations and their impact on breeding behaviour and crop improvement.

Pu
The possible
mechanism,
their
consequences
and role in
genetic
analysis has
been
emphasized in
these
chapters. A
few chapters

have also been dedicated on various techniques routinely used in the laboratory by students and researchers. Each chapter ends with an extensive

Pu
bibliography
so that the
students and
researchers
may find it
relevant to
consult more
literature on
the subject
than a book of
this size can
offer. The

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Pub
book is
intended to
fulfill the
needs of
undergraduate
and post
graduate
students of
botany,
zoology and
agriculture
besides,

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teachers and
researchers
engaged in the
field of
genetics,
cytogenetics,
and molecular
genetics. In
general the
readers will
find each
chapter of the

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book

informative

and easy to

understand.

The Europa

World of

Learning

Advanced

Database

Systems

The Whole

World Oil

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Pub

Directory

Allelopathy

Sentiment

Analysis and

Opinion Mining

Moody's

International

Manual

A Curious Mind

Natural Dyes for

Textiles:

Sources,

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Chemistry and Applications is an in-depth guide to natural dyes, offering complete and practical coverage of the whole dyeing process from source selection to post-treatments. The

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book identifies
plants with high
dye content that
are viable for
commercial use,
and provides
valuable
quantitative
information
regarding
extraction and
fastness

properties, to aid
dye selection.

The book
presents newer
natural dyes in
detail, according
to their suitability
for cotton fabrics,
silk fabrics, and
wool yarn, before
describing the
application of

each dye.

Extraction of
plant parts for
isolation of
colorants,
chromatographic
techniques for
separation,
spectroscopic
analysis of the
isolated
colorants,

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structure

elucidation,

biomordanting,

pretreatments,

and post-

treatments, are

also covered.

Prepared by an

expert author

with many years

of experience in

researching and

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writing on natural

textile dyes, this

book is an

important

resource for

academic

researchers, post-

graduate

students, textile

manufacturers,

technicians, dye

practitioners, and

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those involved in
textile dye
research and
development.

Written by an
expert author
with many years
of experience in
researching and
writing on natural
textile dyes

Provides

File Type PDF Dr

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quantitative

information about

extraction and

fastness

properties that

will be valuable

to those involved

in dye selection

Offers complete

and practical

coverage of the

whole dyeing

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process from
source selection
to post-
treatments

A state-of-the-art,
one-stop
resource, Public
Administration in
South Asia: India,
Bangladesh, and
Pakistan

examines public

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administration

issues and

advances in the

Indian

subcontinent.

The book fulfills a

critical need.

These nations

have the largest

public

administration

programs in

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South Asia, yet
existing
knowledge on
them is
fragmented at
best. Bringing
together leading
scholars from
these countries,
this book
provides both an
insider

perspective and a
scholarly look at
the challenges
and

accomplishments
in the region.

Focusing on the
machinery of
government, the
book explores
questions such
as: What is the

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history of public
administration
development?

How are major
decisions made
in the agencies?

Why are anti-
corruption efforts
so much a
challenge? What
is the

significance of int

ergovernmental relations? What is the success of administrative reform? What are examples of successful social development programs? How successful is e-government, and what are its

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challenges? Why
is civil service
reform difficult to
achieve? How is
freedom of
information being
used as a means
to combat
corruption and
invoke
grassroots
activism? What

Pu

can be learned
from the
successes and
failures? While
public
administration
practice and
education have
become
considerably
professionalized
in the last

decade, a sufficiently in-depth and well-rounded reference on public administration in these countries is sorely lacking. Most available books tackle only aspects of public

administration
such as
administrative
reforms, civil
service,
economic
developments, or
public policy, and
are country
specific. None
provide the in-
depth analysis of

the sphere of public action in South Asia found in this book. It supplies an understanding of how public administration can be either the source of, or solution to, so many of the

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problems and
achievements in
the Indian
subcontinent.

This book
examines the rise
of religious
extremism in
Pakistan,
particularly since
1947, and
analyzes its

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connections to the Pakistani army's corporate interests and U.S.-Pakistan relations. It includes profiles of leading Pakistani militant groups with details of their origins,

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development, and capabilities. The author begins with an historical overview of the introduction of Islam to the Indian sub-continent in 712 AD, and brings the story up to the present by

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describing
President
Musharraf's
handling of the
war on terror. He
provides a
detailed account
of the political
developments in
Pakistan since
1947 with a focus
on the influence

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of religious and
military forces.

He also

discusses

regional politics,

Pakistan's

attempt to gain

nuclear power

status, and

U.S.-Pakistan

relations, and

offers predictions

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for Pakistan's
domestic and
regional
prospects.
Containing
detailed papers
on search
computing, this
book includes
some visionary
contributions on
the latest trends

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and explores the background and related technologies. The papers are written by leading scientists and contain the latest results in the field.

Comprehensive
Dictionary of

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Chemical
Engineering
Official Program
and Abstracts
Microbial Nanobi
otechnology
Ecofriendly Tools
for Reclamation
of Degraded Soil
Environ
Leaf Yield and
Polyphenols of

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Artichoke

(Cynara

Cardunculus L.)

Influenced by

Harvest

Frequency and

Herbicide Stress

Environmental

Concerns and

Solutions

Recent Advances

in Natural

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Products

Analysis

Presents 250
alphabetical
entries on
topics related
to the conflict
between India
and Pakistan
from the time
of Partition up
to the present

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Pu
day.

This book is a
printed edition
of the Special
Issue "Marine
Lipids 2017"
that was
published in
Marine Drugs
Greater
emphasis needs
to be placed on
research into

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eco-friendly
processes
particularly
suited for the
textile
industry. With
this goal in
mind, all
environmental
aspects
relating to the
textile and
clothing

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industry are
discussed in
this book.

Included in the
11 informative
chapters herein
are topics
covering the
correlation
between the
environment and
the processing
and utilization

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of textiles and
clothing.

Chapter 1

discusses the
direct impact
that the

textile

industry has on
the

environment.

The hazardous
environmental
consequences

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that synthetic dyes used to color textiles have on the environment are highlighted in Chapter 2.

Greener alternatives to dyeing are discussed in Chapters 3 through 5, and

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eco-friendly
ways of
finishing
textiles are
discussed in
Chapters 6 and
7. Finally,
solutions to
address the
environmental
hazards
associated with
the textile

industry are
presented in
Chapters 8
through 11.

Allelopathy is
an ecological
phenomenon by
which plants
release organic
chemicals (alle
lochemicals)
into the
environment

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influencing the growth and survival of other organisms. In this book, leading scientists in the field synthesize latest developments in allelopathy

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research with a special emphasis on its application in sustainable agriculture. The following topics are highlighted: Ecological implications, such as the role of

Pu
allelopathy
during the
invasion of
alien plant
species;
regional
experiences
with the
application of
allelopathy in
agricultural
systems and
pest

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management; the
use of
microscopy for
modeling
allelopathy;
allelopathy and
abiotic stress
tolerance; host
allelopathy and
arbuscular
mycorrhizal
fungi;
allelopathic

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interaction
with plant
nutrition; and
the molecular
mechanisms of
allelopathy.
This book is an
invaluable
source of
information for
scientists,
teachers and
advanced

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students in the
fields of plant
physiology,
agriculture,
ecology,
environmental
sciences, and
molecular
biology.

Challenges and
Directions
Microbiota and
Biofertilizers,

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Vol 2

Inside

Pakistan's

Military

Economy

Migration and

Small Towns in

Pakistan

Social Sciences

in Pakistan

Parent-Child

Relations

The Secret to a

Bigger Life

Sentiment analysis and opinion mining is the field of study that analyzes people's opinions, sentiments, evaluations, attitudes, and emotions from written language. It is one of the most active research areas in natural language processing and is

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also widely studied in data mining, Web mining, and text mining. In fact, this research has spread outside of computer science to the management sciences and social sciences due to its importance to business and society as a whole. The growing importance

Pu
of sentiment analysis coincides with the growth of social media such as reviews, forum discussions, blogs, micro-blogs, Twitter, and social networks. For the first time in human history, we now have a huge volume of opinionated data recorded in digital

*form for
analysis. Sentiment
analysis systems are
being applied in
almost every
business and social
domain because
opinions are central
to almost all human
activities and are key
influencers of our
behaviors. Our beliefs
and perceptions of
reality, and the*

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Our choices we make, are largely conditioned on how others see and evaluate the world. For this reason, when we need to make a decision we often seek out the opinions of others. This is true not only for individuals but also for organizations. This book is a

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*comprehensive
introductory and
survey text. It covers
all important topics
and the latest
developments in the
field with over 400
references. It is
suitable for students,
researchers and
practitioners who are
interested in social
media analysis in
general and*

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Pu

sentiment analysis in particular. Lecturers can readily use it in class for courses on natural language processing, social media analysis, text mining, and data mining. Lecture slides are also available online.

Table of Contents: Preface / Sentiment Analysis: A Fascinating Problem /

Page 80/184

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*The Problem of
Sentiment Analysis /
Document Sentiment
Classification /
Sentence Subjectivity
and Sentiment
Classification / Aspect-
Based Sentiment
Analysis / Sentiment
Lexicon Generation /
Opinion
Summarization /
Analysis of
Comparative*

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*Opinions / Opinion
Search and Retrieval
/ Opinion Spam
Detection / Quality of
Reviews / Concluding
Remarks /
Bibliography / Author
Biography
An anecdotal
travelogue about
Lahore - which begins
in the present and
travels through time
to the mythological*

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Origins of the city attributed to Ram's son, Lav. Through the city's present - its people, communities, monuments, parks and institutions - the author paints a vivid picture of the city's past. From its emergence under Mahmud Ghaznavi to the Mughal centuries where several

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Pu
*succession intrigues
unfolded on its soil,
its recasting as the
capital of Maharaja
Ranjit Singh's Khalsa
Empire, the role it
played in preserving
the British Raj, to
acting as an
incubator of
revolutionaries and
people's movements,
Lahore influenced the
subcontinent's*

*Political trajectory
time and again.
Today, too, Lahore
often determines
which way the wind
will blow on
Pakistan's political
landscape. The
Lahore Resolution of
1940, which laid the
blueprint for the
creation of the
country, was signed
here. The city saw*

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the birth of Zulfikar Ali Bhutto's PPP, as well as his downfall. It was to Lahore that Benazir Bhutto returned to combat a military dictator, and where Imran Khan heralded his arrival as a main contender on the political battlefield. As the capital of Punjab, Lahore continues to

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Pub

*cast a long shadow
over the federal
state.*

*Making Sense of the
Organization*

*elaborates on the
influential idea that
organizations are
interpretation*

*systems that scan,
interpret, and learn.*

*These selected
essays represent a
new approach to the*

way managers learn and act in response to their environment and the way organizational change evolves. Readers of this volume will find a wealth of examples and insights which go well beyond thinking and cognition to explain action. The author's ideas are at

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at the forefront of our thinking on leadership, teams, and the management of change. "This book engages the puzzle of impermanence in organizing. Through rich examples, evocative language, artful literature citing, and imaginative connecting, Weick re-

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*introduces core ideas
and themes around
attending,
interpreting, acting
and learning to
unlock new insights
about impermanent
organizing. The
wisdom in this book
is timeless and
timely. It prods
scholars and
managers of
organizations to*

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*Public
complicate their
views of organizing in
ways that enrich
thought and action.”*

*- Jane E. Dutton,
Robert L. Kahn
Distinguished
University Professor,
University of
Michigan*

*This edited book
serves as a vital
resource on the
contributions of*

Publications on the role of microorganisms to advances in nanotechnology, establishing their applications in diverse areas of biomedicine, environment, biocatalysis, food and nutrition, and renewable energy. It documents the impacts of microorganisms in

Pu
*nanotechnology
leading to further
developments in
microbial
nanobiotechnology.
This book appeals to
researchers and
scholars of
microbiology,
biochemistry and
nanotechnology.
The Impermanent
Organization
Chemistry,*

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*Public Administration
Biotechnology and
Materials Science
Imagining Lahore
Public Administration
in South Asia
Marine Lipids 2017
Search Computing
Military Inc
The Europa
World of
Learning
Provides: over
26,000*

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Pu
*academic
institutions,
150,000 staff
and officials;
extensive
coverage of
universities,
colleges and
other centres of
learning; and
detailed
information on*

over 400

international

cultural,

scientific and

educational

organizations.

The dependence

of present

farming on

artificial input of

“chemical

fertilizers” has

Pu
*caused
numerous
ecological
tribulations
associated with
global warming
and soil
contamination.
Moreover, there
is an essential
requirement for
realistic*

*Pu
agricultural
practices on a
comprehensive
level.*

*Accordingly,
biofertilizers
including
microbes have
been
recommended
as feasible
environmentally*

sound solutions for agricultural practices which not only are natural, and cost-effective but also preserve soil environs and important biota of agricultural land. In addition,

*it enhances the
nutrient quantity
of soils
organically.*

*Microbial
biofertilizers
promote plant
growth by
escalating
proficient
absorption of
nutrients for the*

*Plants and by
providing an
excellent
disease-fighting
mechanism. Agriculture, the
backbone of
human
sustenance, has
been put under
tremendous
pressure by the*

*ever-increasing
human
population.*

*Although various
modern agro-
techniques
boosted
agricultural
production, the
excessive use of
synthetic
fertilizers,*

*pesticides and
herbicides have
proven*

*extremely
detrimental to
agriculture as
well as to the
environment in
which it is
carried out.*

*Besides this
some faulty*

Pu
*agricultural
practices like
monoculture
and defective
irrigation,
further
complicate the
scenario by
eliminating
biodiversity,
increasing the
efflux of*

Pu
*nutrients into
the water
bodies, the
formation of
algal blooms,
eutrophication,
damaging the
water quality
and lowering
fish stocks.
Biofertilizers are
the organic*

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*compounds
applied to crops
for their
sustainable
growth and the
sustainability of
the environment
as the
microbiota
associated with
biofertilizers
interact with the*

soil, roots and seeds to enhance soil fertility.

Application of biofertilizers results in the increased mineral and water uptake, root development,

*vegetative
growth and
nitrogen fixation
besides
liberating growth
h-promoting
substances and
minerals that
help the
maintenance of
soil fertility.
They further act*

Pu
*as antagonists
and play a
pivotal role in
neutralising soil-
borne plant
pathogens and
thus, help in the
bio-control of
diseases.*

*Application of
biofertilizers
instead of*

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*synthetic
fertilizers could
be a promising
technique to
raise agricultural
productivity
without
degrading
environmental
quality. The
present book
focuses on the*

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latest research approaches and updates from the microbiota and their applications in the agriculture industry. We believe this book addresses various challenges and

*Put
shed lights on
the possible
future of the
sustainable
agricultural
system.*

*Algae Based
Polymers,
Blends, and
Composites:
Chemistry,
Biotechnology*

Phy
*and Material
Sciences offers
considerable
detail on the
origin of algae,
extraction of
useful
metabolites and
major
compounds from
algal bio-mass,
and the*

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*production and
future prospects
of sustainable
polymers
derived from
algae, blends of
algae, and algae
based
composites.
Characterization
methods and
processing*

techniques for algae-based polymers and composites are discussed in detail, enabling researchers to apply the latest techniques to their own work. The conversion of bio-mass into

*Pu
high value
chemicals,
energy, and
materials has
ample financial
and ecological
importance,
particularly in
the era of
declining
petroleum
reserves and*

global warming. Algae are an important source of biomass since they flourish rapidly and can be cultivated almost everywhere. At present the majority of

*naturally
produced algal
biomass is an
unused resource
and normally is
left to
decompose.
Similarly, the
use of this
enormous
underexploited
biomass is*

*mainly limited to
food*

consumption

*and as bio-
fertilizer.*

*However, there
is an*

*opportunity here
for materials*

*scientists to
explore its*

potential as a

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*feedstock for
the production
of sustainable
materials.*

*Provides
detailed
information on
the extraction of
useful
compounds from
algal biomass
Highlights the*

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*development of
a range of
polymers,
blends, and
composites
Includes
coverage of
characterization
and processing
techniques,
enabling
research*

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*scientists and
engineers to
apply the
information to
their own
research and
development
Discusses
potential
applications and
future prospects
of algae-based*

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*biopolymers,
giving the latest
insight into the
future of these
sustainable
materials*

*A Guide to
Raising Children
Algae Based
Polymers,
Blends, and
Composites*

Page 123/184

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*Official Monthly
Publication of
the Petroleum
Branch,
American
Institute of
Mining and
Metallurgical
Engineers
A Profile
Principles and
Applications*

Page 124/184

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*India,
Bangladesh, and
Pakistan*

*The City that Is,
the City that
was*

Relativistic
Astrophysics brings
together important
astronomical
discoveries and the
significant
achievements, as well

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as the difficulties in
the field of relativistic
astrophysics. This
book is divided into
10 chapters that
tackle some aspects
of the field, including
the gravitational field,
stellar equilibrium,
black holes, and
cosmology. The
opening chapters
introduce the theories
to delineate

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gravitational field and

the elements of

relativistic

thermodynamics and

hydrodynamics. The

succeeding chapters

deal with the

gravitational fields in

matter; stellar

equilibrium and

general relativity

stability; and the

properties of pulsar,

rotating and neutron

stars. The discussion then shifts to the association between gravitational collapse and black holes, as well as the astrophysical investigations of neutron stars and black holes. The final chapters examine the principles of gravitational waves and advances in

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understanding the
field of cosmology.
This book will be of
great value to
astrophysicists and
related scientists.
This book constitutes
the refereed
proceedings of the
Second International
Conference on
Information,
Communication and
Computing

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Technology, ICICCT
2017, held in New
Delhi, India, in May
2017. The 29 revised
full papers and the 5
revised short papers
presented in this
volume were carefully
reviewed and selected
from 219
submissions. The
papers are organized
in topical sections on
network systems and

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Public communication
security; software
engineering;
algorithm and high
performance
computing.

This innovative book
analyses the growth
of Deobandi Islam, a
religious sect whose
followers include
extremist groups,
through the frame of
a counterculture in

conflict with mainstream Muslim society. Due to its relationship with the Taliban, close links to al-Qaeda, and worldwide reach through the ‘ Tablighi Jamaat ’ (Proselytization Group), the Deoband Madrassah Movement has come to acquire global significance. In

Pakistan, Deobandi schools have increasingly been associated with the rise of an intolerant and militant strain of Islam linked with terrorist activities. Primarily intended as a textbook for the undergraduate and postgraduate students of Biosciences,

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Biotechnology and Biochemistry, this compact and well-organized text now in its Second Edition introduces a chapter on Immunity to Infectious Agents. The book gives complete coverage of all the key topics in modern immunology without excessive detail or theoretical discussion.

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Each chapter is enriched with numerous well-labelled illustrations. Beginning with an introduction to the immune system including different types of immunity, immunogens and immunoglobulins, this text covers the basic concepts of antigen-antibody

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interaction and various methods of determining them. It also includes topics on lymphocytes, Major Histocompatibility Complex (MHC) and its classes, graft rejection, and complement pathways. The book concludes with a description on

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different types of vaccines, and cytokines which are a group of regulatory proteins. This textbook will also be useful to the students of B.Tech.

(Biotechnology). KEY FEATURES :

Encompasses the most important topics on HIV and AIDS.

Emphasizes the

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concept of tumour immunology and the therapeutic strategies used against tumours.

Discusses

autoimmunity, its causes and current therapies. Includes multiple-choice questions at the end of each chapter.

Current Trends and

Future Applications

Variational Problems

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in Differential
Geometry
Pakistan's Drift into
Extremism: Allah, the
Army, and America's
War on Terror
Commonwealth
Universities Yearbook
Making Sense of the
Organization, Volume
2
70 Years of
Levothyroxine
Applications of

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Networks, Sensors
and Autonomous
Systems Analytics
Pakistan is a strategic
ally of the US in the
'war on terror'. It is
the third largest
recipient of US aid in
the world. Yet
Pakistan is a state run
by its army and
intelligence
service. Operating in
the shadows,

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Pakistan's military industrial complex owns and controls swathes of the economic and political landscape of the country. Military Inc. dares to illuminate the military as an oppressive holding company possessing not just security-related businesses,

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but also hotels,
shopping malls,
insurance companies,
banks, farms and
even an airline. The
result is a deeply
undemocratic
society, where money
is funnelled towards
the military's
economic
enterprises, leaving
those in need of it
impoverished and

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effectively
disenfranchised. With
an empirical richness,
and a view to
Pakistan's recent
history, Ayesha
Siddiqi offers a
detailed and
powerful case study
of a global
phenomenon:
corruption, hollow
economic growth
and elitism. This new

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edition includes a
chapter on the recent
developments of the
military's foray into
the media, and a new
preface.

This book is a
comprehensive
collection of chemical
engineering terms in
a single volume. It
covers generally all
the chemical
engineering

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literature and has distinguished features. The book is a useful reference material for the people both at the schools and the industry. The author's experience of teaching and research over the years has realized a must book of this kind. The terms are

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written in

alphabetical order.

Where a term

deserves more

elaboration, a rather

detailed description

is provided. The book

also contains a

number of labeled

diagrams which may

be helpful in

understanding some

critical terms.

The main goal of the

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Present book is to deal with the role of nanobiotechnology in skin, soft tissue and bone infections since it is difficult to treat the infections due to the development of resistance in them against existing antibiotics. The present interdisciplinary book

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is very useful for a diverse group of readers including nanotechnologists, medical microbiologists, dermatologists, osteologists, biotechnologists, bioengineers.

Nanotechnology in Skin, Soft-Tissue, and Bone Infections is divided into four

sections: Section I- includes role of nanotechnology in skin infections such as atopic dermatitis, and nanomaterials for combating infections caused by bacteria and fungi. Section II- incorporates how nanotechnology can be used for soft-tissue infections such

Pu
as diabetic foot ulcer
and other wound
infections; Section III-
discusses about the
nanomaterials in
artificial scaffolds
bone engineering
and bone infections
caused by bacteria
and fungi; and also
about the toxicity
issues generated by
the nanomaterials in
general and

Pu
nanoparticles in
particular. The
readers will be
immensely enriched
by the knowledge of
new and emerging
nanobiotechnologies
in a variety of
platforms.

The database field
has experienced a
rapid and incessant
growth since the
development of

relational databases.
The progress in
database systems
and applications has
produced a diverse
landscape of
specialized
technology areas that
have often become
the exclusive domain
of research
specialists. Examples
include active
databases, temporal

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databases, object-oriented databases, deductive databases, imprecise reasoning and queries, and multimedia information systems. This book provides a systematic introduction to and an in-depth treatment of these advanced database areas. It supplies

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Practitioners and researchers with authoritative coverage of recent technological advances that are shaping the future of commercial database systems and intelligent information systems. Advanced Database Systems was written by a team of six

leading specialists
who have made
significant
contributions to the
development of the
technology areas
covered in the book.
Benefiting from the
authors' long
experience teaching
graduate and
professional courses,
this book is designed
to provide a gradual

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introduction to
advanced research
topics and includes
many examples and
exercises to support
its use for individual
study, desk reference,
and graduate
classroom teaching.

Journal of Petroleum
Technology

Natural Dyes for
Textiles

Sources, Chemistry

Page 156/184

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and Applications

Textiles and Clothing

Microbial

Nanotechnology

Relativistic

Astrophysics

Second International

Conference, ICICCT

2017, New Delhi,

India, May 13, 2017,

Revised Selected

Papers

This book

provides an

Page 157/184

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account of the biogenic synthesis of nanomaterials by using different microorganisms. The chapters are focused on the biosynthesis of various metal and metal oxide nanosized materials by

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Pu using bacteria, actinomycetes, fungi, and algae, including mechanisms of microbial synthesis. Other chapters summarize recent developments of microbial-based nanostructures for the

management of
food-borne
pathogens, plant
pathogenic fungi,
as nutrients, and
biomedical
applications.

Microorganisms
are discussed not
only as
biofactories for
the synthesis of
nanomaterials

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but also as
removal agents of
toxic metals from
the environment.
Exposure sources
and ecotoxicity of
microbially
synthesized
nanoparticles are
also discussed.
This easy-to-read,
comprehensive
guide contains

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what you need to know on how to parent with confidence. Packed with advice and powerful tips, using the latest research on child development and parenting techniques, it offers a mine of

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information on
how to let
children flourish,
take the
frustration out of
parenting and
develop happy
family relations.
Authors provide
guidance on
developing
character,
knowledge,

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values, and skills, as well as a faith-based outlook in children, benefitting parents with kids of all ages. The many strategies and techniques offered include: teaching children how to problem-solve, make

decisions, and
develop self-
esteem. Raising
God conscious,
moral, successful
children, with a
sense of civic
responsibility in
today's world is
not easy. It is also
not impossible.
Effective
parenting is the

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key.

This open access book presents the history, pharmacokinetics and pharmacodynamics of levothyroxine, discussing its role in the thyroid pathophysiology of patients of various ages and

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during pregnancy.

It also describes the influence of levothyroxine on heart, bone and in cancer. When it was first

synthesized in 1949,

levothyroxine represented a significant advance in the

treatment of hypothyroidism, providing a safe and effective treatment option for millions of hypothyroid patients around the globe. This synthetic form of thyroxine is now one of the most prescribed drugs

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in the world.

Levothyroxine

was first

introduced by

Merck

KGaA, Darmstadt,

Germany, in

1972, and since

then the

company has

remained actively

engaged in

research on this

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mainstay of
hypothyroidism
treatment. This
book is intended
for healthcare
professionals.
Recent Advances
in Natural
Products Analysis
is a thorough
guide to the
latest analytical
methods used for

identifying and
studying
bioactive
phytochemicals
and other natural
products.

Chemical
compounds, such
as flavonoids,
alkaloids,
carotenoids and
saponins are
examined,

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highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components

followed by
techniques of
extraction,
purification and
fractionation, and
then techniques
of identification
and
quantification.
Biological
activities,
possible
interactions,

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levels found in plants, the effects of processing, and current and potential industrial applications are also included.

Focuses on the latest analytical techniques used for studying phytochemical

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Pu and other
biological
compounds
Authored and
edited by the top
worldwide
experts in their
field Discusses
the current and
potential
applications and
predicts future
trends of each

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compound group
Proceedings of
ICANSAA 2020
An Encyclopedia
Countercultural
Trends and
Tendencies
Allah, the Army,
and America's
War on Terror
Nanotechnology
in Skin, Soft
Tissue, and Bone

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Infections
Conflict Between
India and
Pakistan
Chromosome
Structure and
Aberrations

***The field of
geometric
variational problems
is fast-moving and
influential. These***

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*problems interact
with many other
areas of
mathematics and
have strong
relevance to the
study of integrable
systems,
mathematical
physics and PDEs.
The workshop
'Variational*

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*Problems in
Differential
Geometry' held in
2009 at the
University of Leeds
brought together
internationally
respected
researchers from
many different
areas of the field.
Topics discussed*

*included recent
developments in
harmonic maps and
morphisms, minimal
and CMC surfaces,
extremal Kähler
metrics, the Yamabe
functional,
Hamiltonian
variational problems
and topics related to
gauge theory and to*

the Ricci flow.

*These articles
reflect the whole
spectrum of the
subject and cover
not only current
results, but also the
varied methods and
techniques used in
attacking
variational
problems. With a*

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*mix of original and
expository papers,
this volume forms a
valuable reference
for more
experienced
researchers and an
ideal introduction
for graduate
students and
postdoctoral
researchers.*

***The Deoband
Madrassah
Movement
Information,
Communication and
Computing
Technology
Modulation and
Coding Techniques
in Wireless
Communications***

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***TEXTBOOK OF
IMMUNOLOGY***