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*In recent years, a
wealth of research
has emerged
addressing various
aspects of mobile
communications
signal processing.
New applications and*

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*services are
continually arising,
and future mobile
communications
offer new
opportunities and
exciting challenges
for signal processing.
The Signal Processing
for Mobile
Communications
Handbook provi*

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*Oil and Gas
Production
Handbook: An
Introduction to Oil
and Gas ProductionL
ulu.comClinical
Practice Guidelines
For Chronic Kidney
Disease IBM Power
520 Technical
OverviewIBM
Redbooks*

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*This IBM®
Redbooks®
publication describes
the features and
functions the latest
member of the IBM
Z® platform, the
IBM z15™
(machine type 8561).
It includes
information about the
IBM z15 processor*

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*design, I/O
innovations, security
features, and
supported operating
systems. The z15 is a
state-of-the-art data
and transaction
system that delivers
advanced
capabilities, which
are vital to any
digital*

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transformation. The z15 is designed for enhanced modularity, which is in an industry standard footprint. This system excels at the following tasks:

- Making use of multicloud integration services*
- Securing data with pervasive*

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encryption

*Accelerating digital
transformation with
agile service delivery*

*Transforming a
transactional*

*platform into a data
powerhouse Getting*

more out of the

platform with IT

Operational Analytics

Accelerating digital

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*transformation with
agile service delivery
Revolutionizing
business processes
Blending open source
and Z technologies
This book explains
how this system uses
new innovations and
traditional Z strengths
to satisfy growing
demand for cloud,*

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analytics, and open source technologies. With the z15 as the base, applications can run in a trusted, reliable, and secure environment that improves operations and lessens business risk.

*Welcome to the
Green Book a*

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*comprehensive guide
for financial
institutions that
receive ACH
payments from the
Federal government.
Today, the vast
majority of Federal
payments are made
via the ACH. With
very few exceptions,
Federal government*

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ACH transactions continue to be subject to the same rules as private industry ACH payments. As a result, the Green Book continues to get smaller in size and is designed to deal primarily with exceptions or issues unique to Federal

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government

operations.

Russell's Official

National Motor

Coach Guide

Using Agricultural

Biomass and Organic

Wastes

How Technologies

Will Change Sports in

the Digital Age

Structural change,

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*fundamentals, and
growth : a
framework and case
studies*

*Climate Change and
Air Pollution*

M9

*Whether the
result of an oil
well blowout,
vessel collision
or grounding,*

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*leaking pipeline,
or other incident
at sea, each
marine oil spill
will present
unique
circumstances
and challenges.
The oil type and
properties,
location, time of
year, duration of*

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*spill, water
depth,
environmental
conditions,
affected biomes,
potential human
community
impact, and
available
resources may
vary
significantly.*

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*Also, each spill
may be
governed by
policy
guidelines, such
as those set
forth in the
National
Response Plan,
Regional
Response Plans,
or Area*

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*Contingency
Plans. To
respond
effectively to
the specific
conditions
presented
during an oil
spill, spill
responders have
used a variety of
response option*

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*sâ€™"including
mechanical
recovery of oil
using skimmers
and booms, in
situ burning of
oil, monitored
natural
attenuation of
oil, and
dispersion of oil
by chemical*

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*dispersants.
Because each
response
method has
advantages and
disadvantages,
it is important to
understand
specific
scenarios where
a net benefit
may be*

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*achieved by
using a
particular tool or
combination of
tools. This report
builds on two
previous
National
Research
Council reports
on dispersant
use to provide a*

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*current
understanding
of the state of
science and to
inform future
marine oil spill
response
operations. The
response to the
2010 Deepwater
Horizon spill
included an*

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*unprecedented
use of
dispersants via
both surface
application and
subsea injection.
The magnitude
of the spill
stimulated
interest and
funding for
research on oil*

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*spill response,
and dispersant
use in particular.
This study
assesses the
effects and
efficacy of
dispersants as
an oil spill
response tool
and evaluates
trade-offs*

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*associated with
dispersant use.*

This IBM®

Redbooks®

publication

covers IBM

TS7700 R4.2.

The IBM TS7700

is part of a

family of IBM

Enterprise tape

products. This

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*book is intended
for system
architects and
storage
administrators
who want to
integrate their
storage systems
for optimal
operation.
Building on over
20 years of*

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*virtual tape
experience, the
TS7760 now
supports the
ability to store
virtual tape
volumes in an
object store. The
TS7700 has
supported off
loading to
physical tape for*

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*over two
decades. Off
loading to
physical tape
behind a TS7700
is utilized by
hundreds of
organizations
around the
world. Using the
same
hierarchical*

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storage techniques, the TS7700 can also off load to object storage. Given object storage is cloud based and accessible from different regions, the TS7760 Cloud Storage Tier

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*support
essentially
allows the cloud
to be an
extension of the
grid. As of the
release of this
document, the
TS7760C
supports the
ability to off load
to IBM Cloud*

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*Object Storage
as well as
Amazon S3. To
learn about the
TS7760 cloud
storage tier
function,
planning,
implementation,
best practices,
and support see
IBM Redpaper*

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IBM TS7760

R4.2 Cloud

Storage Tier

Guide,

redp-5514 at: ht

tp://www.redboo

ks.ibm.com/abst

racts/redp5514.

html The IBM

TS7700 offers a

modular,

scalable, and hig

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*h-performance
architecture for
mainframe tape
virtualization for
the IBM Z®
environment. It
is a fully
integrated,
tiered storage
hierarchy of disk
and tape. This
storage*

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hierarchy is managed by robust storage management microcode with extensive self-management capability. It includes the following advanced functions:

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*Improved
reliability and
resiliency
Reduction in the
time that is
needed for the
backup and
restore process
Reduction of
services
downtime that is
caused by*

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*physical tape
drive and library
outages*

*Reduction in
cost, time, and
complexity by
moving primary
workloads to
virtual tape*

*More efficient
procedures for
managing daily*

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*backup and
restore
processing
Infrastructure
simplification
through
reduction of the
number of
physical tape
libraries, drives,
and media
TS7700 delivers*

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*the following
new capabilities:
TS7760C
supports the
ability to off load
to IBM Cloud
Object Storage
as well as
Amazon S3
8-way Grid
Cloud consisting
of any*

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*generation of
TS7700
Synchronous
and
asynchronous
replication Tight
integration with
IBM Z and
DFSMS policy
management
Optional
Transparent*

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*Cloud Tiering
Optional
integration with
physical tape
Cumulative
16Gb FICON
throughput up
to 4.8GB/s 8 IBM
Z hosts view up
to 496 8
equivalent
devices Grid*

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*access to all
data
independent of
where it exists
The TS7760T
writes data by
policy to
physical tape
through
attachment to
high-capacity, hi
gh-performance*

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*IBM TS1150 and
IBM TS1140
tape drives
installed in an
IBM TS4500 or
TS3500 tape
library. The
TS7760 models
are based on high-
performance
and redundant
IBM POWER8®*

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*technology.
They provide
improved
performance for
most IBM Z tape
workloads when
compared to the
previous
generations of
IBM TS7700.
Collection of the
monthly*

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*climatological
reports of the
United States by
state or region
with monthly
and annual
National
summaries.
Interest in
anaerobic
digestion (AD),
the process of*

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energy production through the production of biogas, has increased rapidly in recent years.

Agricultural and other organic waste are important

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*substrates that
can be treated
by AD. This book
is one of the first
to provide a
broad
introduction to
anaerobic
digestion and its
potential to turn
agricultural
crops or crop*

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residues, animal and other organic waste, into biomethane. The substrates used can include any non-woody materials, including grass and maize silage,

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*seaweeds,
municipal and
industrial
wastes. These
are all
systematically
reviewed in
terms of their
suitability from a
biological,
technical and
economic*

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perspective. In the past the technical competence and high capital investment required for industrial-scale anaerobic digesters has limited their uptake, but the

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*authors show
that recent
advances have
made smaller-
scale systems
more viable
through a
greater
understanding
of optimising
bacterial
metabolism and*

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*productivity.
Broader issues
such as life
cycle
assessment and
energy policies
to promote AD
are also
discussed.
Science,
Technology, and
Environmental*

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*Impact
Clinical Practice
Guidelines For
Chronic Kidney
Disease
A User's Guide
to Vacuum
Technology
IBM Power 520
Technical
Overview
Concrete*

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*Pressure Pipe,
3rd Ed.*

*Soil Organic
Carbon Mapping
Cookbook*

***Sustainable
Urbanism in China
explores the notion
of "Sustainable
Urbanism" by
considering the
role sustainable
neighborhood***

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***planning plays in
the larger picture
of sustainable
urbanism and
suggests
innovations and
best practices that
are either
developed or
adopted by China.
These are narrated
as lessons learnt
for other countries
where we see***

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***similar trends of
development
patterns or
emerging
practices. Through
various
explorations of
challenges,
paradigms, and
innovations of
urban
sustainability, this
book highlights
how planning,***

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policy, and design are forming and reforming in the context of China. These are offered through a set of guidelines and pathways for urban sustainability at the scale of neighborhoods/communities or districts in a wider context of

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urban environments, as well as strategies for planners, developers, policy makers, and educators in the field of the built environment. Through a comprehensive overview of urban sustainability practices in China,

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***this book
investigates 12
case study
projects. These
comprehensive
explorations
should in turn help
construct the
future directions of
China's sustainable
urban
development and
provide innovative
pathways of***

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***sustainable
urbanism in China
and around the
globe.***

Basic

***Transesophageal
and Critical Care
Ultrasound***

***provides an
overview of
transesophageal
ultrasound of the
heart, lung, and
upper abdomen as***

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***well as basic
ultrasound of the
brain, lung, heart,
abdomen, and
vascular system.
Ultrasound-guided
procedures
commonly used in
critically ill
patients are also
covered. With
more than 400
clinical images,
this well-***

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***illustrated text and
its accompanying
videos***

***demonstrate new
developments and
challenges for
those interested in
mastering basic
transesophageal
echocardiography
(TEE) and bedside
surface
ultrasound. Each
chapter is***

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***presented in an
easy-to-read
format that
includes color
diagrams and
ultrasound images
which optimize
interactive
learning for both
novice and
experienced
clinicians. The
book is divided
into two parts. The***

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first is dedicated to basic TEE while the second provides focused coverage of bedside ultrasound. The book also includes chapters on extra-cardiac TEE and ultrasound of the brain—unconventional areas that will become more

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important in the future as clinicians evaluate not only the etiology of hemodynamic instability but also the impact on multiple organs and systems such as the kidney, liver, splanchnic perfusion, and brain. This text is an invaluable

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***resource to those
preparing for the
National Board of
Echocardiography's
Examination of
Special
Competence in
Basic Perioperative
Transesophageal
Echocardiography
(PTEeXAM) and its
equivalents
outside the USA
and Canada. In***

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***addition, it
prepares
physicians for the
American College
of Chest
Physician's critical
care ultrasound
certification. The
contents follow the
syllabus of the TEE
basic echo exam to
ensure complete
coverage of a
trainee's***

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requirements. It also includes sample questions and two helpful mock exams. Written by a multidisciplinary team of experts in TEE, the book is a must-have for those in training and in practice. This series contains the

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***decisions of the
Court in both the
English and French
texts.***

***This book
discusses regional
and international
climate-change,
air- pollution and
human-health
scenarios. The
research, from
both industrialized
and developing***

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countries, focuses on region-specific perspectives of climate change impacts on air pollution. After analyzing the variations of climate data over recent decades, the authors consider the different effects of climate change on

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air pollution and health. As stressed by the IPCC, "pollen, smoke and ozone levels are likely to increase in a warming world, affecting the health of residents of major cities. Rising temperatures will worsen air quality through a

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combination of more ozone in cities, bigger wild fires and worse pollen outbreaks,” according to a major UN climate report. The report follows the World Health Organization in finding that air pollution is the world’s greatest

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environmental health risk, killing 7 million people in 2014 (compared to 0.4 million deaths due to malaria). Deteriorating air quality will most affect the elderly, children, people with chronic ill-health and expectant mothers. Another

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report suggests that more than 5.5 million people die prematurely each year due to air pollution with over half of those deaths occurring in China and India. A study on the air pollution in the USA, suggests that more than half of US population lives

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in areas with potentially dangerous air pollution, and about six out of 10 of the top cities for air pollution in the USA are located in the state of California. In the face of future climate change, scientists have urged stronger

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emission controls to avoid worsening air pollution and the associated exacerbation of health problems, especially in more populated regions of the world. It is hoped that the implementation of the Paris Climate Agreement will help minimize air

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pollution. Additionally the authors consider the various measures that different countries and groups of countries, like the European Union, have adopted to mitigate the problems arising from climate change and to

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safeguard the health of population. The book examines the increasing incidence of diseases largely caused by climate change. The countries/regions covered in this study include the USA, Northern Europe

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***(U.K)., Southern
Europe (Italy),
Canada, Australia,
East Asia, Russia,
Hong Kong,
Taiwan, Thailand,
Malaysia,
Indonesia, India,
South Africa,
Mexico, Brazil,
Caribbean
countries, and
Argentina.***
The Use of

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***Dispersants in
Marine Oil Spill
Response
The ASTRONET
Infrastructure
Roadmap
Spacecraft Power
Systems
2nd edition
Oil and Gas
Production
Handbook: An
Introduction to Oil
and Gas***

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***Production
Earth Observation
Data Cubes***

Introduction
to Microwave
Remote Sensing
offers an
extensive
overview of
this versatile
and extremely
precise

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technology for
technically
oriented
undergraduates
and graduate
students. This
textbook
emphasizes an
important
shift in conce
ptualization
and directs it

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toward
students with
prior
knowledge of
optical remote
sensing: the
author dispels
any linkage
between
microwave and
optical remote
sensing.

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Instead, he constructs the concept of microwave remote sensing by comparing it to the process of audio perception, explaining the workings of

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the ear as a metaphor for microwave instrumentation.

This volume takes an "application-driven" approach.

Instead of describing the technology and

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then its uses,
this textbook
justifies the
need for
measurement
then explains
how microwave
technology
addresses this
need.

Following a
brief summary

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of the field
and a history
of the use of
microwaves,
the book
explores the
physical
properties of
microwaves and
the
polarimetric
properties of

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electromagnetic waves. It examines the interaction of microwaves with matter, analyzes passive atmospheric and passive surface measurements,

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and describes the operation of altimeters and scatterometers. The textbook concludes by explaining how high resolution images are created using

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radars, and how techniques of interferometry can be applied to both passive and active sensors.

Planetary atmospheres is a relatively

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new, interdisc
iplinary
subject that
incorporates
various areas
of the
physical and
chemical
sciences,
including
geophysics,
geophysical

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fluid
dynamics,
atmospheric
science,
astronomy, and
astrophysics.
Providing a
much-needed
resource for
this cross-
disciplinary
field, An

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Introduction
to Planetary
Atmospheres
presents
current
knowledge on
atmospheres
and the
fundamental
mechanisms
operating on
them. The

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author treats the topics in a comparative manner among the different solar system bodies—what is known as comparative planetology. Based on an established

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course, this comprehensive text covers a panorama of solar system bodies and their relevant general properties. It explores the origin and evolution of

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atmospheres,
along with
their chemical
composition
and thermal
structure. It
also describes
cloud
formation and
properties,
mechanisms in
thin and upper

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atmospheres,
and
meteorology
and dynamics.
Each chapter
focuses on
these
atmospheric
topics in the
way
classically
done for the

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Earth's atmosphere and summarizes the most important aspects in the field. The study of planetary atmospheres is fundamental to understanding the origin of

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the solar system, the formation mechanisms of planets and satellites, and the day-to-day behavior and evolution of Earth's atmosphere. With many

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interesting
real-world
examples, this
book offers a
unified vision
of the
chemical and
physical
processes
occurring in
planetary
atmospheres.

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Ancillaries
are available
at www.ajax.ehu.es/planetary_atmospheres/
Opportunities
and optimism
in Aging.
Issues in
Aging, 3rd
edition takes
an optimistic

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view of aging
and human
potential in
later life.

This book
presents the
most up-to-
date facts on
aging today,
the issues
raised by
these facts,

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and the
societal and
individual
responses that
will create a
successful old
age for us
all. Mark
Novak presents
the full
picture of agi
ng--exhibiting

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both the
problems and
the
opportunities
that accompany
older age. The
text
illustrates
how
generations
are dependent
on one another

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and how social conditions affect both the individual and social institutions.

Learning Goals

-Upon completing this book, readers will be able to:

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-Understand
how large-
scale social
issues--social
attitudes, the
study of
aging, and
demographic
issues--affect
individuals
and social
institutions

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-Identify the political responses to aging and how individuals can create a better old age for themselves and the people they know

-Separate the myths from the

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realities of
aging
-Recognize the
human side of
aging -Trace
the
transformation
of pension
plans, health,
and
opportunities
for personal

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expression and
social
engagement to
the new
ecology of
aging today
Globalisation
and the rapid
increase in
world trade in
the past
decade have

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contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic

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changes in the
mode of world
trade and
cargo
transportation
make it more
important than
ever to have a
clear
understanding
of the way in
which freight

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is transported
by sea and the
role of ports
in this
exchange. At
the cutting
edge in its
assessment of
the industry,
Maritime
Logistics
covers the

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whole scope of
maritime
logistics and
examines
latest
logistical
developments
within the
port and
shipping
industry. With
a range of new

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international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics,

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hinterland
logistics and
global supply
chains,
maritime
transport and
logistics as a
trade
facilitator,
and future
trends and
developments.

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Written by a
team of
international
experts with
over fifty
years'
experience in
the field,
Maritime
Logistics
provides a
truly global

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perspective.

The book

covers

everything

that students

of logistics,

as well as

those working

within the

industry, need

to know about

maritime

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logistics,
including
shipping
lines,
containers,
tankers, dry
bulk, port-
centric
logistics, and
much more.
Surface
Charging and

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Points of Zero
Charge
The Impact on
Human Health
in Developed
and Developing
Countries
Secure
Messaging
Scenarios with
WebSphere MQ
Hyperspectral

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Satellites and
System Design
IBM TS7700
Release 4.2
Guide
Volume 2

***This IBM®
Redbooks®
publication
helps you
install,
configure, and***

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*use the IBM
z/OS®*

*Management
Facility
(z/OSMF).*

*z/OSMF is a
product for
z/OS that
simplifies,
optimizes, and
modernizes the
z/OS system*

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*programmer
experience.
z/OSMF
delivers
solutions in a
task-oriented,
web browser-
based user
interface with
integrated
user
assistance.*

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*The goal of
z/OSMF is to
improve system
programmer
productivity,
and make
functions
easier to
understand and
use. This
improvement
makes system*

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*programmers
more
productive as
quickly as
possible with
the least
amount of
training. You
can automate
tasks, reduce
the learning
curve, and*

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*improve
productivity
through a
modern,
simplified,
and intuitive
task-based,
browser-based
interface.
z/OSMF is
aimed at a
mixed skills*

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workforce: It is suited to professionals who are new to z/OS and those who are skilled in z/OS. Each professional has their own needs and faces their

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*own
challenges.
Novice system
programmer
might need to
understand the
"big picture"
and how
procedures are
done. Novices
also need
access to*

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*documentation
about
procedures and
tasks, and
implement them
according to
the rules of
the
enterprise.
Experienced
system
programmers*

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*are familiar
with tasks and
procedures.
Therefore, the
goal is to
make their
work less
error-prone
and easier.
This goal
allows them to
be more*

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*productive and
contribute
more to their
business.*

*Although z/OS
delivered
simplification
since it was
introduced,
z/OSMF brings
a new
dimension and*

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*focus to simpl
ification.*

z/OSMF

*simplifies and
modernizes the
user*

*experience and
helps make*

pertinent

information

readily

available and

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*easily
accessible.
Hyperspectral
Satellites and
System Design
is the first
book on this
subject. It
provides a
systematic
analysis and
detailed*

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*design of the
entire
development
process of
hyperspectral
satellites.
Derived from
the author's
25-year
firsthand
experience as
a technical*

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*lead of space
missions at
the Canadian
Space Agency,
the book
offers
engineers,
scientists,
and decision-
makers
detailed
knowledge and*

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*guidelines on
hyperspectral
satellite
system design,
trade-offs,
performance
modeling and
simulation,
optimization
from component
to system
level,*

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*subsystem
design, and
implementation
strategies.*

*This
information
will help
reduce the
risk, shorten
the
development
period, and*

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*lower the cost
of
hyperspectral
satellite
missions. This
book is a must-
have reference
for
professionals
in developing
hyperspectral
satellites and*

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*data
applications.
It is also an
excellent
introductory
book for early
practitioners
and students
who want to
learn more
about
hyperspectral*

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*satellites and
their
applications.
The power
systems of
space vehicles
have undergone
significant
development
during the
previous
decade, and*

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*will continue
to do so in
the immediate
future. Until
now, except
for the
scattered
results of
conferences
and a few
publications
with sketchy*

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*coverage, no
single volume
has covered
the entire
spectrum of
the subject.
Spacecraft
Power Systems
addresses
every facet of
electrical
power system*

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*design,
analyses, and
operation with
a level of
detail found
nowhere else.
The book
delivers wide
coverage of
the
fundamentals
of energy*

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*conversion,
energy
storage, power
conditioning,
energy
management,
and
operational
aspects that
help engineers
maintain a
leading edge*

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*in the design
of various
systems. This
volume
provides the
most recent
data and
procedures for
designing an
electrical
power system
that meets*

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mission requirements at a minimum of cost and weight. This book evolved from courses taught by the author and from the author's deep involvement in

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*many design
and
development
programs at
the General
Electric Space
Division and
at Lockheed
Martin Space
Systems.
This book
outlines the*

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*effects that t
echnology-
induced change
will have on
sport within
the next five
to ten years,
and provides
food for
thought
concerning
what lies*

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*further ahead.
Presented as a
collection of
essays, the
authors are
leading
academics from
renowned
institutions
such as
Massachusetts
Institute of*

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*Technology,
Queensland
University of
Technology,
and the
University of
Cambridge, and
practitioners
with extensive
technological
expertise. In
their essays,*

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*the authors
examine the
impacts of
emerging
technologies
like
artificial
intelligence,
the Internet
of Things, and
robotics on
sports and*

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*assess how
they will
change sport
itself,
consumer
behavior, and
existing
business
models. The
book will help
athletes,
entrepreneurs,*

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*and innovators
working in the
sports
industry to
spot
trendsetting
technologies,
gain deeper
insights into
how they will
affect their
activities,*

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*and identify
the most
effective
responses to
stay ahead of
the
competition
both on and
off the pitch.
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to
Understanding*

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*Agricultural
Biodiversity,
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Services and
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New Materials,
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Technology
Issues in
Aging*

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Atmospheres
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This comprehensive manual of water supply practices explains the design,

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selection,
specification,
installation,
transportation, and
pressure testing of
concrete pressure
pipes in potable
water service.

In the decade and a
half since the
publication of the
Second Edition of A
User's Guide to
Vacuum Technology

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there have been many important advances in the field, including spinning rotor gauges, dry mechanical pumps, magnetically levitated turbo pumps, and ultraclean system designs. These, along with improved cleaning and assembly techniques

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have made contamination-free manufacturing a reality. Designed to bridge the gap in both knowledge and training between designers and end users of vacuum equipment, the Third Edition offers a practical perspective on today's vacuum technology. With a

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focus on the operation, understanding, and selection of equipment for industrial processes used in semiconductor, optics, packaging, and related coating technologies, A User's Guide to Vacuum Technology, Third Edition provides

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a detailed treatment of this important field. While emphasizing the fundamentals and touching on significant topics not adequately covered elsewhere, the text avoids topics not relevant to the typical user. The differences between well-

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designed security and poorly designed security are not always readily apparent. Poorly designed systems give the appearance of being secure but can over-authorize users or allow access to non-users in subtle ways. The problem is that poorly designed security gives a false

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sense of confidence. In some ways, it is better to knowingly have no security than to have inadequate security believing it to be stronger than it actually is. But how do you tell the difference? Although it is not rocket science, designing and implementing strong security

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requires strong foundational skills, some examples to build on, and the capacity to devise new solutions in response to novel challenges. This IBM® Redbooks® publication addresses itself to the first two of these requirements. This book is intended

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primarily for security specialists and IBM WebSphere® MQ administrators that are responsible for securing WebSphere MQ networks but other stakeholders should find the information useful as well. Chapters 1 through 6 provide a foundational background for

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WebSphere MQ security. These chapters take a holistic approach positioning WebSphere MQ in the context of a larger system of security controls including those of adjacent platforms' technologies as well as human processes. This approach seeks

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to eliminate the simplistic model of security as an island, replacing it instead with the model of security as an interconnected and living system. The intended audience for these chapters includes all stakeholders in the messaging system from architects and

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designers to developers and operations. Chapters 7 and 8 provide technical background to assist in preparing and configuring the scenarios and chapters 9 through 14 are the scenarios themselves. These chapters provide fully realized example configurations. One

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of the requirements for any scenario to be included was that it must first be successfully implemented in the team's lab environment. In addition, the advice provided is the cumulative result of years of participation in the online community by the

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authors and reflect real-world practices adapted for the latest security features in WebSphere MQ V7.1 and WebSphere MQ V7.5. Although these chapters are written with WebSphere MQ administrators in mind, developers, project leaders, operations staff, and architects are all

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stakeholders who will find the configurations and topologies described here useful. The third requirement mentioned in the opening paragraph was the capacity to devise new solutions in response to novel challenges. The only constant in the security field is that

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the technology is always changing. Although this book provides some configurations in a checklist format, these should be considered a snapshot at a point in time. It will be up to you as the security designer and implementor to stay current with security

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news for the products you work with and integrate fixes, patches, or new solutions as the state of the art evolves.

Edited by prominent researchers and with contributions from

experts in their

individual areas,

Intelligent Energy

Field Manufacturing:

Interdisciplinary

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Process Innovations explores a new philosophy of engineering. An in-depth introduction to Intelligent Energy Field Manufacturing (EFM), this book explores a fresh engineering methodology that not only integrates but goes beyond methodologies such

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as Design for Six Sigma, Lean Manufacturing, Concurrent Engineering, TRIZ, green and sustainable manufacturing, and more. This book gives a systematic introduction to classic non-mechanical manufacturing processes as well as

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offering big pictures of some technical frontiers in modern engineering. The book suggests that any manufacturing process is actually a process of injecting human intelligence into the interaction between material and the various energy fields in order to transfer the material

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into desired configurations. It discusses technological innovation, dynamic M-PIE flows, the generalities of energy fields, logic functional materials and intelligence, the open scheme of intelligent EFM implementation, and the principles of intelligent EFM. The

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book takes a highly interdisciplinary approach that includes research frontiers such as micro/nano fabrication, high strain rate processes, laser shock forming, materials science and engineering, bioengineering, etc., in addition to a detailed treatment of

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the so called "non-traditional" manufacturing processes, which covers waterjet machining, laser material processing, ultrasonic material processing, EDM/ECM, etc. Filled with illustrative pictures, figures, and tables that make technical materials

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more absorbable, the book cuts across multiple engineering disciplines. The majority of books in this area report the facts of proven knowledge, while the behind-the-scenes thinking is usually neglected. This book examines the big picture of manufacturing in

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depth before diving into the details of an individual process, demonstrating how innovations are achieved. It lowers barriers to technical innovation, meets new engineering challenges, and systematically introduces manufacturing processes.

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IBM z/OS

Management Facility

V2R3

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Sustainable Urbanism

in China

Intelligent Energy

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List of Materials

Acceptable for Use on

Systems of RUS

Electrification

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This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is

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a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and

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applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F)

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Computer Networks,
Mobility and Pervasive
Systems; G) Intelligent
and Decision Support
Systems; H) Big Data
Analytics and
Applications; I)
Human-Computer
Interaction; J) Ethics,
Computers & Security;
K) Health Informatics;
L) Information
Technologies in
Education; M)

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Information
Technologies in
Radiocommunications;
N) Technologies for
Biomedical
Applications.
The Most Detailed
Resource Available on
Points of Zero Charge
With their work
growing in complexity,
chemists involved with
surface phenomena-
related projects have

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outgrown the common resources available to them on points of zero charge (PZC) of oxides. Reporting on a limited number of materials in a limited number of scenarios, these resources often leave scientists wondering if the variances reported in the results they depend upon are due to actual differences in

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properties among particular samples or due to differences between isoelectric points (IEP) and points of zero charges obtained by titration. Taking on the monumental task of building a complete reference, Marek Kosmulski, a leading authority in the field of surface chemistry

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(Hirsch index of 22),
takes a new approach
to provide chemists with
the most detailed
resource on the points
of zero charge of oxides
available to date.

Surface Charging and
Points of Zero Charge
presents PZC data on
well-defined specimens
of materials sorted by
trademark,
manufacturer

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(commercial materials), location (natural materials), and specific recipe (synthetic materials). The text emphasizes the comparison between particular results obtained for different portions of the same or very similar material. Synthesizing information published in research reports over

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the past few decades,
this invaluable
reference:

Characterizes materials
in terms of
thermochemical data,
chemical composition
(level of impurities),
crystallographic
structure, specific
surface area (various
methods), particular
size, and morphology
Provides additional

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references to more detailed sample characterization (SEM and TEM images, XRD patterns, and particle size distributions)

Reviews the PZC and IEP--with all possible details regarding the method, type of instrument, and experimental conditions

Pays special attention to correlations of the

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PZC and IEP with other physical quantities and properties, surface charging in mixed and nonaqueous solvents, surface charging at high ionic strengths, and ion-specificity in 1-1 electrolytes All available sources were used to obtain the data in this reference making it the definitive

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resource on PZC/IEP. Destined to become a classic, Surface Charging and Points of Zero Charge points the way for further research with tried and true methods that help researchers avoid the doubt that can lead to countless hours of unnecessary research. Erratum for this volume can be found

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on the author's website. The Soil Organic Carbon Mapping cookbook provides a step-by-step guidance for developing 1 km grids for soil carbon stocks. It includes the preparation of local soil data, the compilation and pre-processing of ancillary spatial data sets, upscaling methodologies, and

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uncertainty assessments. Guidance is mainly specific to soil carbon data, but also contains many generic sections on soil grid development, as it is relevant for other soil properties. This second edition of the cookbook provides generic methodologies and technical steps to produce SOC maps and

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has been updated with knowledge and practical experiences gained during the implementation process of GSOCmap V1.0 throughout 2017. Guidance is mainly specific to SOC data, but as this cookbook contains generic sections on soil grid development it can be applicable to map

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various soil properties. This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation

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is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data

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economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence,

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unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not

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just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

A Guide to Federal
Government Ach

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Services: Updated for

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9.1

Satellite Earth

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observation (EO) data have already exceeded the petabyte scale and are increasingly freely and openly available from different data providers. This poses a number of issues in terms of volume (e.g., data

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volumes have increased 10x in the last 5 years); velocity (e.g., Sentinel-2 is capturing a new image of any given place every 5 days); and variety (e.g., different types of sensors, spatial/spectral

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resolutions).

Traditional approaches to the acquisition, management, distribution, and analysis of EO data have limitations (e.g., data size, heterogeneity, and complexity) that

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impede their true
information
potential to be
realized.

Addressing these
big data
challenges
requires a change
of paradigm and a
move away from
local processing
and data

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distribution
methods to lower
the barriers
caused by data
size and related
complications in
data management.
To tackle these
issues, EO data
cubes (EODC) are
a new paradigm
revolutionizing the

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way users can store, organize, manage, and analyze EO data. This Special Issue is consequently aiming to cover the most recent advances in EODC developments and implementations to broaden the use of

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EO data to larger communities of users, support decision-makers with timely and actionable information converted into meaningful geophysical variables, and ultimately unlock

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the information
power of EO data.
This IBM
Redpaper
publication is a
comprehensive
guide covering the
IBM Power 520
server, machine
type model
8203-E4A. The
goal of this paper

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is to introduce this innovative server that includes IBM System i and IBM System p and new hardware technologies. The major hardware offerings include: -
The POWER6 processor,
available at

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frequencies of 4.2 GHz and 4.7 GHz.

- Specialized POWER6 DDR2 memory that provides greater bandwidth, capacity, and reliability. - The 1 Gb or 10 Gb Integrated Virtual Ethernet adapter

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that brings native hardware virtualization to this server. -

EnergyScale technology that provides features such as power trending, power-saving, capping of power, and thermal

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measurement. -

PowerVM

virtualization

technology. -

Mainframe

continuous

availability brought

to the entry server

environment. This

Redpaper expands

the current set of

IBM Power System

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documentation by providing a desktop reference that offers a detailed technical description of the Power 520 system. This Redpaper does not replace the latest marketing materials and

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tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions. Assessing the scientific and

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technological
aspects of lead-
free soldering,
Lead-Free
Soldering in
Electronics
considers the
necessary
background and
requirements for
proper alloy
selection. It

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highlights the metallurgical and mechanical properties; plating and processing technologies; and evaluation methods vital to the production of lead-free sold

Materials selection is a crucial factor

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in determining the cost, quality, and corrosion protection for every engineering project. The variety of increasingly durable materials and their combinations, coupled with the rise of new and

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more critical
service
requirements and
the demand for
lower costs, have
expanded upon
trial-and-error
criteria into
methodical, multi-
dimensional
approaches to
materials

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selection. An invaluable resource that analyzes materials from a microscopic perspective as well as a macroscopic standpoint, *New Materials, Processes, and Methods Technology* is a

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practical guide to matching and applying the material or materials with the right combination of properties in order to meet your design and service conditions. The book presents an update of existing

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materials and processes as well as newly developed materials that have been invented or changed by innovative techniques within the past decade. It details recent research, various

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analytical
methods, key
material and
design
considerations,
fabrication
methods, and
developmental
processes. Each
section covers a
material or
material-family and

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the techniques
required for
practical
applications.

Anticipating future
trends and
prospects, the
book also
examines the
foundations to
several innovative
technologies,

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including the potential of tailor-made materials, various types of fuel cells, and the properties of FGMs in current and future metallic and non-metallic systems and models. In its final chapter, the book

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highlights
processes that are
poised for
production as well
as prospects still in
experimentation
and testing
phases. New
Materials,
Processes, and
Methods
Technology

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provides today's
scientists,
technicians, and
engineering
departments
devoted to
resolving
application
requirements with
performance
properties using a
well-executed

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material selection
process.

Earth Observation
Open Science and
Innovation
Trends and
Applications in
Information
Systems and
Technologies
Green Book
Signal Processing

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for Mobile
Communications
Handbook
Introduction to
Microwave
Remote Sensing
Basic
Transesophageal
and Critical Care
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publication
helps you plan,
install,
configure, and
manage Copy
Services on the
IBM DS8000®
operating in an
IBM Z® or Open
Systems
environment.
This book helps
you design and

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implement a new
Copy Services
installation or
migrate from an
existing
installation.
It includes
hints and tips
to maximize the
effectiveness
of your
installation,
and information

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about tools and products to automate Copy Services functions. It is intended for anyone who needs a detailed and practical understanding of the DS8000 Copy Services.

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This edition is
an update for
the DS8900
Release 9.1.
Note that the
Safeguarded
Copy feature is
covered in IBM
DS8000
Safeguarded
Copy,
REDP-5506.
Based on

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principles of
the
conservation
and
optimization of
biodiversity
and of equity
and
sustainability,
this book
focuses on the
ecology of the
coffee

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agroecosystem
as a model for
a sustainable
agricultural
ecosystem. It
draws on the
authors' own
research
conducted over
the last twenty
years as well
as
incorporating

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the vast
literature that
has been
generated on
coffee
agroecosystems
from around the
world. The book
uses an
integrated
approach that
weaves together
various lines

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of research to understand the ecology of a very diverse tropical agroforestry system. Key concepts explored include biodiversity patterns, metapopulation

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dynamics and ecological networks. These are all set in a socioeconomic and political framework which relates them to the realities of farmers' livelihoods. The authors provide a novel

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synthesis that
will generate
new
understanding
and can be
applied to
other examples
of sustainable
agriculture and
food
production.
This synthesis
also explains

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the ecosystem
services
provided by the
approach,
including the
economic, fair
trade and
political
aspects
surrounding
this all-
important
global

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commodity.

Algae have been used since ancient times as food, fodder, fertilizer and as source of medicine.

Nowadays seaweeds represent an unlimited

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source of the raw materials used in pharmaceutical, food industries, medicine and cosmetics. They are nutritionally valuable as fresh or dried vegetables, or

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as ingredients
in a wide
variety of
prepared foods.
In particular,
seaweeds
contain
significant
quantities of
protein,
lipids,
minerals and
vitamins. There

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is limited information about the role of algae and algal metabolites in medicine. Only a few taxa have been studied for their use in medicine.

Many traditional

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cultures report curative powers from selected alga, in particular tropical and subtropical marine forms. This is especially true in the maritime areas of Asia, where the sea

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plays a significant role in daily activities.

Nonetheless, at present, only a few genera and species of algae are involved in aspects of medicine and therapy.

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Beneficial uses of algae or algal products include those that may mimic specific manifestations of human diseases, production of antibiotic compounds, or improvement of

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human nutrition
in obstetrics,
dental
research, thall
assotherapy,
and forensic
medicine.

Review of

Maritime

Transport 2020

Coffee

Agroecology

Therapeutic and

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Nutritional
Uses of Algae
Lead-Free
Soldering in
Electronics