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*Simulation of the
complex forces shaping
geopolitics. And we take
a drive through
TRANSIMS, a model of the*

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city of Albuquerque, New Mexico, to discover the root causes of events like traffic jams and accidents. Along the way, Casti probes the answers to a host of

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*profound questions these
"would-be worlds" raise
about the new science of
simulation.*

*"Architect Tom Kundig is
known worldwide for the
originality of his work.*

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This paperback edition of Tom Kundig: Houses, first published in 2006, collects five of his most prominent early residential projects, which remain touchstones

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for him today. In a new preface written for this edition, Kundig reflects on the influence that these designs continue to have on his current thinking. Each house,

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*presented from
conceptual sketches
through meticulously
realized details, is the
product of a sustained
and active collaborative
process among designer,*

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builder, and client. The work of the Seattle-based architect has been called both raw and refined--disparate characteristics that produce extraordinarily

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*inventive designs
inspired by both the
industrial structures
ubiquitous to his
upbringing in the
Pacific Northwest and
the vibrant craft*

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*cultures that are
fostered there." --
The complete works of
one of England's
greatest Edwardian
writers Saki is perhaps
the most graceful*

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*spokesman for England's
'Golden Afternoon' - the
slow and peaceful years
before the First World
War. Although, like so
many of his generation,
he died tragically*

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*young, in action on the
Western Front, his
reputation as a writer
continued to grow long
after his death. His
work is humorous,
satiric, supernatural,*

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and macabre, highly individual, full of eccentric wit and unconventional situations. With his great gift as a social satirist of his

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*contemporary upper-class
Edwardian world, Saki is
one of the few
undisputed English
masters of the short
story and one of the
great writers of a*

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bygone era. For more than seventy years, Penguin has been the leading publisher of classic literature in the English-speaking world. With more than

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*to provide authoritative
texts enhanced by
introductions and notes
by distinguished
scholars and
contemporary authors, as
well as up-to-date*

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*translations by award-winning translators.
Written for both experienced analysts and new graduates or postgraduates starting to use ICP-MS as part of*

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their academic or industrial research, the ICP Mass Spectrometry Handbook provides a thorough description of ICP-MS instrumentation and techniques, giving

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*the reader sufficient
knowledge to approach
the technique with
confidence.*

*The Revelation of the
End Times!*

Alloy Phase Diagrams

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Would-Be Worlds
OECD Guidelines for the
Testing of Chemicals,
Section 2 Test No. 231:
Amphibian Metamorphosis
Assay
Phosphorus in Action

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The GMO Deception

Designed for advanced undergraduate students, Physical Properties of Materials, Second Edition establishes the principles that control the optical, thermal, electronic, magnetic, and

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mechanical properties of materials. Using an atomic and molecular approach, this introduction to materials science offers students a wide-ranging survey of the field and a basis to understand future materials. The author incorporates

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comments on applications of materials science, extensive references to the contemporary and classic literature, and problems at the end of each chapter. In addition, unique tutorials allow students to apply the principles to

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understand applications, such as photocopying, magnetic devices, fiber optics, and more. This fully revised and updated second edition presents a discussion of materials sustainability, a description of crystalline structures, and

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discussion of current and recent developments, including graphene, carbon nanotubes, nanocomposites, magnetocaloric effect, and spintronics. Along with a new capstone tutorial on the materials science of cymbals, this

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edition contains more than 60 new end-of-chapter problems, bringing the total to 300 problems. Web Resource The book's companion website (www.physicalpropertiesofmaterials.com) provides updates to the further reading sections, links to

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relevant movies and podcasts for each chapter, video demonstrations, and additional problems. It also offers sources of demonstration materials for lectures and PowerPoint slides of figures from the book. More information

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can be found on a recent press release describing the book and the website.

This last book in the six-volume series from NEXTmanga combines cutting-edge illustration with fast-paced storytelling to deliver biblical

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truth to an ever-changing, postmodern culture. More than 10 million books in over 40 different languages have been distributed worldwide in the series.

This Test Guideline describes an amphibian metamorphosis assay

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intended to screen substances which may interfere with the normal functioning of the hypothalamo-pituitary-thyroid axis. The assay was validated with the species *Xenopus laevis*, which is ...

This book focuses on the assembly

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and reliability of lead-free solder joints. Both the principles and engineering practice are addressed, with more weight placed on the latter. This is achieved by providing in-depth studies on a number of major topics

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such as solder joints in conventional and advanced packaging components, commonly used lead-free materials, soldering processes, advanced specialty flux designs, characterization of lead-free solder joints, reliability testing

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and data analyses, design for reliability, and failure analyses for lead-free solder joints. Uniquely, the content not only addresses electronic manufacturing services (EMS) on the second-level interconnects, but also packaging

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assembly on the first-level interconnects and the semiconductor back-end on the 3D IC integration interconnects. Thus, the book offers an indispensable resource for the complete food chain of electronics products.

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Nanotechnology in Aerospace and
Structural Mechanics

Soil Strength and Slope Stability

True Accounts of Slave Rescues:
Then and Now

Noisy Trucks

Assembly and Reliability of Lead-

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Free Solder Joints

Alkylene Oxides and Their
Polymers

This report presents the world
nitrogen, phosphate and potassium
fertilizer medium-term supply and
demand projections for the period

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2014-2018. FAO, in collaboration with experts from the FAO/Fertilizer Organizations Working Group dealing with fertilizer production, consumption and trade, annually provides five-year forecasts of world and regional fertilizer supply, demand and potential

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balance.

Discover the latest trends in the abatement of water pollution from four celebrated and authoritative authors
Water Resource Management: Strategies and Scarcity delivers a balanced and comprehensive look at

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recent trends in the management of polluted water resources. Covering the latest practical and theoretical aspects of polluted water management, the distinguished academics and authors emphasize indigenous practices of water resource management, the

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scarcity of clean water, and the future of the water system in the context of increasing urbanization and globalization. The book details the management of contaminated water sites, including heavy metal contaminations in surface and

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subsurface water sources. It details a variety of industrial activities that typically pollute water, such as those involving crude oils and dyes. In its discussion of recent trends in abatement strategies, Water Resource Management includes an exploration

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of the application of microorganisms, like bacteria, actinomycetes, fungi, and cyanobacteria, for the management of environmental contaminants. Readers will also discover a wide variety of other topics on the conservation of water sources, like: The role of

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government and the public in the management of water resource pollution The causes of river system pollution and potential future scenarios in the abatement of river pollution Microbial degradation of organic pollutants in various water bodies The

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advancement in membrane technology used in water treatment processes Lead contamination in groundwater and recent trends in abatement strategies for it Highly polluting industries and their effects on surrounding water resources Perfect for graduate and

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post graduate students and researchers whose focus is on recent trends in abatement strategies for pollutants and the application of microorganisms for the management of environmental contaminants, Water Resource Management: Strategies and Scarcity

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also has a place in the libraries of environmentalists whose work involves the management and conservation of polluted sites.

This comprehensive guide to fan-out wafer-level packaging (FOWLP) technology compares FOWLP with flip

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chip and fan-in wafer-level packaging. It presents the current knowledge on these key enabling technologies for FOWLP, and discusses several packaging technologies for future trends. The Taiwan Semiconductor Manufacturing Company (TSMC)

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employed their InFO (integrated fan-out) technology in A10, the application processor for Apple's iPhone, in 2016, generating great excitement about FOWLP technology throughout the semiconductor packaging community. For many practicing engineers and

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managers, as well as scientists and researchers, essential details of FOWLP – such as the temporary bonding and de-bonding of the carrier on a reconstituted wafer/panel, epoxy molding compound (EMC) dispensing, compression molding, Cu revealing,

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RDL fabrication, solder ball mounting, etc. – are not well understood. Intended to help readers learn the basics of problem-solving methods and understand the trade-offs inherent in making system-level decisions quickly, this book serves as a valuable

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reference guide for all those faced with the challenging problems created by the ever-increasing interest in FOWLP, helps to remove roadblocks, and accelerates the design, materials, process, and manufacturing development of key enabling

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technologies for FOWLP. Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal

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and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region

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schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard

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reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland

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Waters navigation.Robert J.
BlackwellAssistant Secretary for
Maritime Affairs
EPA-600/1
Elements of X-ray Crystallography
Fair Value Measurements
Slave Stealers

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Semiconductor Advanced Packaging
Simple Connections

The first edition of our Handbook was written in 1983. In the preface to the first edition we noted the rapid development of inductively coupled plasma

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atomic emission spectrometry and its considerable potential for elemental analysis. The intervening five years have seen a substantial growth in ICP applications; much has happened and this is an

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appropriate time to present a revised edition. The basic approach of the book remains the same. This is a handbook, addressed to the user of the technique who seeks direct, practical advice. A concise

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summary of the technique is attempted. Detailed, theoretical treatment of the background to the method is not covered. We have, however, thoroughly revised much of the text, and new chapters have been added.

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These reflect the changes and progress in recent years. We are grateful to Mr Stephen Walton, Dr Gwendy Hall and London and Scandinavian Metallurgical Co. Ltd for their contributions.

Chapter 3 (Instrumentation) has

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been rewritten by Mr Walton, the new Chapter on ICP-mass spectrometry has been written by Dr Hall, and London and Scandinavian provided much of the information for the chapter on metals analysis by ICP-AES.

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These chapters have been integrated into the book, and a conscious effort has been made to retain the unity of style within the book. New material has been added elsewhere in the book, archaeological materials are

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considered, pre concentration methods and chemometrics covered more fully.

Seventy-five percent of processed foods on supermarket shelves—from soda to soup, crackers to condiments—contain

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genetically engineered ingredients. The long-term effects of these foods on human health and ecology are still unknown, and public concern has been steadily intensifying. This new book from the Council

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for Responsible Genetics
gathers the best, most thought-
provoking essays by the leading
scientists, science writers, and
public health advocates.
Collectively, they address such
questions as: Are GM foods safe

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and healthy for us? Will GM food really solve world hunger? Who really controls the power structure of food production? Are GM foods ecologically safe and sustainable? Why is it so difficult to get GM foods labeled in the

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US? What kinds of regulations and policies should be instituted? How is seed biodiversity, of lack thereof, affecting developing countries? Should animals be genetically modified for food? How are other countries handling

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GM crops? Ultimately, this definitive book encourages us to think about the social, environmental, and moral ramifications of where this particular branch of biotechnology is taking us, and

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what we should do about it. Opportunities and optimism in Aging. Issues in Aging, 3rd edition takes an optimistic view of aging and human potential in later life. This book presents the most up-to-date facts on aging

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today, the issues raised by these facts, and the societal and individual responses that will create a successful old age for us all. Mark Novak presents the full picture of aging--exhibiting both the problems and the

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opportunities that accompany older age. The text illustrates how generations are dependent on one another and how social conditions affect both the individual and social institutions.

Learning Goals -Upon

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completing this book, readers will be able to: -Understand how large-scale social issues--social attitudes, the study of aging, and demographic issues--affect individuals and social institutions -Identify the political responses

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to aging and how individuals can create a better old age for themselves and the people they know -Separate the myths from the realities of aging -Recognize the human side of aging -Trace the transformation of pension

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plans, health, and opportunities
for personal expression and
social engagement to the new
ecology of aging today

"Soil Strength and Slope Stability
is the essential text for the critical
assessment of natural and man-

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made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from

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around the world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas,

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and the use of software in
analysis."--pub. desc.

Biological Processes in Soil
Phosphorus Cycling
Implications and Consequences
of Anthropogenic Pollution in
Polar Environments

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Python Programming
Remediation of Heavy Metals
Properties of Materials
ASM Handbook

Calculations in
Chemistry is intended to
help students overcome

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the challenges
associated with solving
the numerical problems
in chemistry. Chemistry
is a numerical science
which cannot be fully
appreciated without

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adequate numerical skills. In fact, the lack of problem-solving skills has been recognised as one of the major reasons for the poor performance

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recorded in the subject
over the years.
Budgetary and size
constraints often
translate to lack of
space for solving enough
sample problems in core

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textbooks and most problems are presented in a difficult manner that douses enthusiasm for learning.

This book offers a broad and global level

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description of the current status of wastewater use in agriculture and then brings the readers to various places in the MENA Region and Europe

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to explain how some countries and regions have addressed the challenges during implementation. On a global scale, over 20 million hectares of

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agricultural land are irrigated using wastewater. This is one good, and perhaps the most prominent, example of the safe use potential of wastewater.

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Water scarcity and the cost of energy and fertilisers are among the main factors driving millions of farmers and other entrepreneurs to make use of wastewater.

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In order to address the
technical,
institutional, and
policy challenges of
safe water reuse,
developing countries and
countries in transition

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need clear institutional arrangements and more skilled human resources, with a sound understanding of the opportunities and potential risks of

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wastewater use.
Stakeholders in
wastewater irrigation
who need to implement
from scratch or improve
current conditions, find
it difficult to gather

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the necessary
information on practical
implementation aspects.
The main objective of
this book is to bridge
that gap.

Follow two abolitionists

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who fought one of the most shockingly persistent evils of the world: human trafficking and sexual exploitation of slaves. Told in alternating chapters

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from perspectives
spanning more than a
century apart, read the
riveting 19th century
first-hand account of
Harriet Jacobs and the
modern-day eyewitness

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account of Timothy
Ballard. Harriet Jacobs
was an African-American,
born into slavery in
North Carolina in 1813.
She thwarted the sexual
advances of her master

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for years until she
escaped and hid in the
attic crawl space of her
grandmother's house for
seven years before
escaping north to
freedom. She published

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an autobiography of her life, Incidents in the Life of a Slave Girl, which was one of the first open discussions about sexual abuse endured by slave women.

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She was an active abolitionist, associated with Frederick Douglass, and, during the Civil War, used her celebrity to raise money for black refugees. After the war,

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she worked to improve the conditions of newly-freed slaves. As a former Special Agent for the Department of Homeland Security who has seen the horrors and

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carnage of war, Timothy Ballard founded a modern-day "underground railroad" which has rescued hundreds of children from being fully enslaved, abused,

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or trafficked in third-world countries. His story includes the rescue and his eventual adoption of two young siblings--Mia and Marky, who were born in Haiti.

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Section 2 features the lives of five abolitionists, a mix of heroes from past to present, who call us to action and teach us life lessons based on their

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own experiences: Harriet
Tubman--The "Conductor";
Abraham Lincoln--the
"Great Emancipator";
Little Mia--the sister
who saved her little
brother; Guesno

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Mardy--the Haitian
father who lost his son
to slave traders; and
Harriet Jacobs--a
teacher for us all.

Junior Theory Level 1 -
a foundational music

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theory book specifically
designed for children
aged 4-7.

Water Reuse

Tom Kundig: Houses

What You Need to Know
about the Food,

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Corporations, and
Government Agencies
Putting Our Families and
Our Environment at Risk

Using Problem Solving
Approach

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The Complete Saki
Young readers will love to feel the different textures and hear the truck sounds in this interactive, sturdy board book designed for children ages 3 and up. Includes an on/off

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switch on the back cover to extend battery life. Touch, feel, and hear the trucks on every page of this sturdy board book. Engaging photographs and appealing textures encourage young readers to explore the

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exciting world of trucks. Press the touch-and-feels to hear five realistic truck sounds, with a button on the last page to play all five sounds again!

Phosphorus (P) is a finite resource which is essential for

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life. It is a limiting nutrient in many ecosystems but also a pollutant which can affect biodiversity in terrestrial ecosystems and change the ecology of water bodies. This book collects the latest

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information on biological processes in soil P cycling, which to date have remained much less understood than physico-chemical processes. The methods section presents spectroscopic techniques and

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the characterization of microbial P forms, as well as the use of tracers, molecular approaches and modeling of soil-plant systems. The section on processes deals with mycorrhizal symbioses,

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microbial P solubilization, soil macrofauna, phosphatase enzymes and rhizosphere processes. On the system level, P cycling is examined for grasslands, arctic and alpine soils, forest plantations, tropical

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forests, and dryland regions. Further, P management with respect to animal production and cropping, and the interactions between global change and P cycling, are treated.

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"This book provides the latest developments in the field of space research and structural mechanics. It also explores the mechanics of nanomaterials, the advancement of their electronic properties, the

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development of the methods of synthesis of the nanomaterials for fabricating nanodevices, and related technological expertise to assemble the nano components for fabricating the devices"--

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The book focuses on the design, materials, process, fabrication, and reliability of advanced semiconductor packaging components and systems. Both principles and engineering practice have been addressed,

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with more weight placed on engineering practice. This is achieved by providing in-depth study on a number of major topics such as system-in-package, fan-in wafer/panel-level chip-scale packages, fan-

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out wafer/panel-level packaging, 2D, 2.1D, 2.3D, 2.5D, and 3D IC integration, chiplets packaging, chip-to-wafer bonding, wafer-to-wafer bonding, hybrid bonding, and dielectric materials for high

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speed and frequency. The book can benefit researchers, engineers, and graduate students in fields of electrical engineering, mechanical engineering, materials sciences, and industry

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engineering, etc.

*How Simulation is Changing
the Frontiers of Science*

Junior Theory Level 1

*From Concept to
Implementation*

Pinus Resinosa Ait

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*Resources, Strategies, and
Scarcity*

Joints in Steel Construction

Ideal for a variety of
courses in materials
science, Properties of
Materials offers students

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a wide-ranging and introductory survey of this exciting field. It uses an atomic and molecular approach to introduce the basic principles of materials

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science from the perspective of various properties--optical, thermal, electrical, magnetic, and mechanical--highlighting the relationships among

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the properties. Opening with a general introduction to issues in materials science, the text goes on to discuss various types of matter: metals, semiconductors

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(intrinsic and extrinsic),
insulators, glasses,
orientationally disordered
crystals, defective
solids, liquid crystals,
Fullerenes, Langmuir-
Blodgett films, colloids,

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inclusion compounds, and more. The volume incorporates several pedagogical features including extensive further reading suggestions and problems

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at the end of each chapter, comment sections on applications of materials science, comprehensive biographical notes on major contributors to the field,

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and a helpful website that updates recent references to the contemporary literature. In addition, the book includes unique tutorials that enable students to apply the

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principles they have learned in order to work out the physical principles behind such important advances as the photocopy process, photography, fiber optics,

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heat storage materials, magnetic devices, and more.

Volume 3 provides a complete explanation of phase diagrams and their significance and covers

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solid solutions;
thermodynamics;
isomorphous, eutectic,
peritectic, and monotectic
alloy systems; solid-state
transformations; and
intermediate phases. The

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volume includes 1083
binary systems, 1095
binary diagrams, 115
ternary systems, and 406
ternary diagrams. --
publisher.

Safe Use of Wastewater in

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Agriculture From Concept to Implementation Springer
An Integrated Approach to Managing the World's Water Resources
Water Reuse: Issues, Technologies, and Applications equips

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water/wastewater students, engineers, scientists, and professionals with a definitive account of the latest water reclamation, recycling, and reuse theory and practice. This

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landmark textbook presents an integrated approach to all aspects of water reuse _ from public health protection to water quality criteria and regulations to advanced

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technology to implementation issues. Filled with over 500 detailed illustrations and photographs, Water Reuse: Issues, Technology, and Applications features: In-

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depth coverage of cutting-edge water reclamation and reuse applications Current issues and developments in public health and environmental protection criteria, regulations, and

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risk management Review of current advanced treatment technologies, new developments, and practices Special emphasis on process reliability and multiple barrier concepts

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approach Consideration of
satellite and
decentralized water reuse
facilities Consideration
of planning and public
participation of water
reuse Inside This Landmark

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Water/Wastewater
Management Tool • Water
Reuse: An Introduction •
Health and Environmental
Concerns in Water Reuse •
Technologies and Systems
for Water Reclamation and

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Reuse • Water Reuse
Applications •
Implementing Water Reuse
Pollutants and Water
Management
Sea Salt Aerosol
Production

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Red Or Norway Pine
Flip Chip Technologies
Calculations in Chemistry
Inductively Coupled Plasma
Mass Spectrometry Handbook
The first evidence on the adverse
effects of organic pollutants on

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Arctic ecosystems was provided by international research initiatives more than 30 years ago. Today, the indigenous people of the North are considered to be affected by exposure to persistent organic pollutants (POPs) and metals

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through their traditional marine food sources. The occurrence of pollutants of emerging concern in remote Polar environments is considered an essential criterion for prioritising this (largely neglected) type of contamination in national, international and

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global regulation schemes. Initiated during the first international Polar Years (IPY 2007-2009) and continued afterwards, 11 representative initiatives and projects are summarised as chapters in this book, which highlights today's

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interdisciplinary research on POPs in the Polar environment. The individual chapters describe in detail the consequences, priorities and perspectives of international research on POPs (legacy and emerging xenobiotics), its implications for

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regulations and scientific priorities including societal and cultural developments in the Arctic, as well as conservation priorities in Antarctica. This book is intended for all readers interested in learning more about modern research on

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environmental pollutants in the Polar environments (with a strong focus on Arctic environments). The impacts of pollution and climate change on Polar regions and the world as a whole will continue to be felt for many years to come. Sound science is, thus,

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vital in order to underpin actions that need to be taken at the global, regional and local levels. This book contributes to this highly relevant, interdisciplinary environmental scientific endeavour.

Published by the American

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Geophysical Union as part of the Geophysical Monograph Series, Volume 152. Sea salt aerosol (SSA) exerts a major influence over a broad reach of geophysics. It is important to the physics and chemistry of the marine atmosphere and to marine

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geochemistry and biogeochemistry generally. It affects visibility, remote sensing, atmospheric chemistry, and air quality. Sea salt aerosol particles interact with other atmospheric gaseous and aerosol constituents by acting as sinks for

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condensable gases and suppressing new particle formation, thus influencing the size distribution of these other aerosols and more broadly influencing the geochemical cycles of substances with which they interact. As the key aerosol

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constituent over much of Earth's surface at present, and all the more so in pre-industrial times, SSA is central to description of Earth's aerosol burden.

A guide to flip chip technologies, for professionals in flip chip and MCM research and development,

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and for engineers and technical managers choosing design and manufacturing processes for electronic packaging and interconnect systems. Discusses economic, design, material, quality, and reliability issues of flip chip technologies, and details

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aspects of classical solder-bumped flip chip interconnect technologies; the next generations of flip chip technologies; and known-good-die testing for multiple module applications. Annotation copyright by Book News, Inc., Portland, OR

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A comprehensive treatment of a large family of polymers useful in a wide range of applications in such fields as automotive, pharmaceutical, cosmetic, metal-working, mining, industrial coating, textile, construction, and home furnishings. Summarizes

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the chemistry and mechanisms;
provides basic prepa

Manga Majesty

Physical Properties of Materials,
Second Edition

Issues, Technologies, and
Applications

Second Edition

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Fan-Out Wafer-Level Packaging
World Fertilizer Trends and
Outlook to 2018

Python Programming is designed
as a textbook to fulfil the
requirements of the first-level
course in Python programming. It

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is suited for undergraduate degree students of computer science engineering, information technology as well as computer applications. The book aims to introduce the students to the fundamentals of computing and

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the concepts of Python programming language, and enable them to apply these concepts for solving real-world problems.

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