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Review of Maritime Transport 2020
Lead-Free Soldering in Electronics
IBM z15 (8561) Technical Guide
IBM Power 520 Technical Overview
Basic Transesophageal and Critical Care
Ultrasound
IBM z/OS Management Facility V2R3
Soil Organic Carbon Mapping Cookbook
Transparent Governance in an Age of Abundance
Spacecraft Power Systems
The Use of Dispersants in Marine Oil Spill
Response
Interdisciplinary Process Innovations
Social Processes and the Spatial Unevenness of
Population Ageing
Dictionary and Introduction to Global
Environmental Governance
Oil and Gas Production Handbook: An Introduction
to Oil and Gas Production
ACS Without an Attitude
Earth Observation Open Science and Innovation
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Biodiversity, Ecosystem Services and Sustainable
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Experiences of Test Automation

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Amy Snow
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Hyperspectral Satellites and System Design
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The Psychology of Environmental Problems
Issues in Aging
Surface Charging and Points of Zero Charge

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**MARITZA
DOWNS**

Oil and Gas
Production
Handbook: An
Introduction to

Oil and Gas
Production
This
comprehensiv
e manual of
water supply
practices
explains the

design,
selection,
specification,
installation,
transportation
, and pressure
testing of
concrete

pressure pipes in potable water service.

Review of Maritime Transport 2020 IBM Redbooks

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

Lead-Free Soldering in Electronics

MDPI

Oil and Gas Production

Handbook: An Introduction to

Oil and Gas Production

Lulu.com

The

ASTRONET

Infrastructure

Roadmap

IBM Power 520

Technical

Overview

IBM Redbooks

IBM z15

(8561)

Technical

Guide

IBM Redbooks

The power

systems of

space vehicles

have

undergone

significant

development

during the previous

decade, and

will continue

to do so in the

immediate

future. Until

now, except

for the

scattered

results of

conferences

and a few

publications

with sketchy

coverage, no

single volume

has covered

the entire

spectrum of

the subject.

Spacecraft

Power

Systems

addresses

every facet of

electrical

power system

design,

analyses, and

operation with

a level of

detail found nowhere else.

The book

delivers wide

coverage of

the

fundamentals

of energy

conversion,

energy

storage,

power

conditioning,

energy

management,

and

operational

aspects that

help engineers

maintain a

leading edge

in the design

of various

systems. This

volume

provides the

most recent

data and

procedures for

designing an

electrical

power system

that meets 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 many design and development programs at the General Electric Space Division and at Lockheed Martin Space Systems.

IBM Power 520

Technical Overview

OECD Publishing
Assessing the scientific and technological

aspects of lead-free soldering, Lead-Free Soldering in Electronics considers the necessary background and requirements for proper alloy selection. It highlights the metallurgical and mechanical properties; plating and processing technologies; and evaluation methods vital to the production of lead-free sold
Basic Transesophag eal and Critical Care

Ultrasound
CRC Press
Digital business has been driving the transformation of underlying IT infrastructure to be more efficient, secure, adaptive, and integrated. Information Technology (IT) must be able to handle the explosive growth of mobile clients and employees. IT also must be able to use enormous amounts of data to provide deep and real-time insights to

help achieve the greatest business impact. This IBM® Redbooks® publication addresses the IBM Mainframe, the IBM z13™. The IBM z13 is the trusted enterprise platform for integrating data, transactions, and insight. A data-centric infrastructure must always be available with a 99.999% or better availability, have flawless data integrity, and be secured from

misuse. It needs to be an integrated infrastructure that can support new applications. It needs to have integrated capabilities that can provide new mobile capabilities with real-time analytics delivered by a secure cloud infrastructure. IBM z13 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows

the z13 to deliver a record level of capacity over the prior IBM z Systems™. In its maximum configuration, z13 is powered by up to 141 client characterizable microprocessors (cores) running at 5 GHz. This configuration can run more than 110,000 millions of instructions per second (MIPS) and up to 10 TB of client memory. The IBM z13 Model NE1 is estimated to provide up to

40% more total system capacity than the IBM zEnterprise® EC12 (zEC1) Model HA1. This book provides information about the IBM z13 and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the IBM z Systems

functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM z Systems technology and terminology.

IBM z/OS Management Facility V2R3

Springer
 Edited by prominent researchers and with contributions from experts in their individual areas, Intelligent Energy Field Manufacturing

: Interdisciplinary 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 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 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 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 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 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 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 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. *Soil Organic Carbon Mapping Cookbook* American Water Works Association In recent years, a wealth of research has emerged addressing various

aspects of mobile communications signal processing. New applications and services are continually arising, and future mobile communications offer new opportunities and exciting challenges for signal processing. *The Signal Processing for Mobile Communications Handbook* provides **Transparent Governance in an Age of Abundance** Routledge The Most Detailed

<p>Resource Available on Points of Zero Charge With their work growing in complexity, chemists involved with surface phenomena-related projects have 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</p>	<p>wondering if the variances reported in the results they depend upon are due to actual differences in 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</p>	<p>surface chemistry (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 (commercial materials), location (natural materials), and specific</p>
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<p>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 the past few decades, this invaluable reference: Characterizes materials in terms of thermochemical data, chemical composition</p>	<p>(level of impurities), crystallographic structure, specific surface area (various methods), particular size, and morphology Provides additional 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</p>	<p>experimental conditions Pays special attention to correlations of the 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 resource on PZC/IEP. Destined to</p>
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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 on the author's website. [Spacecraft Power Systems](#) Earthscan Basic Transesophag

eal and Critical Care Ultrasound provides an overview of transesophag eal ultrasound of the heart, lung, and upper abdomen as 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-illustrated text and its

accompanying videos demonstrate new developments and challenges for those interested in mastering basic transesophag eal echocardiogra phy (TEE) and bedside surface ultrasound. Each chapter is 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 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 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 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 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 requirements. It also includes sample questions and two helpful mock exams. Written by a multidisciplina

ry team of experts in TEE, the book is a must-have for those in training and in practice.

The Use of Dispersants in Marine Oil

Spill Response
Routledge

Applied Linear Statistical

Models 5e is the long established

leading authoritative text and

reference on statistical

modeling. For students in

most any discipline where

statistical analysis or

interpretation is used, ALSM

serves as the

standard work. The text includes brief introductory and review material, and then proceeds through

regression and modeling

for the first half, and

through ANOVA and

Experimental Design in the

second half. All topics are

presented in a precise and

clear style supported

with solved examples, numbered

formulae, graphic

illustrations, and "Notes" to

provide depth and statistical

accuracy and

precision.

Applications used within the text and the hallmark problems, exercises, and projects are

drawn from virtually all disciplines and fields

providing motivation for

students in virtually any

college. The Fifth edition

provides an increased use

of computing and graphical

analysis throughout, without

sacrificing concepts or

rigor. In general, the

5e uses larger data sets in

examples and

exercises, and where methods can be automated within software without loss of understanding, it is so done. Interdisciplinary Process Innovations National Academies Press This IBM® Redbooks® publication helps you install, configure, and 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 programmer experience. z/OSMF delivers solutions in a task-oriented, web browser-based user interface with integrated user assistance. The goal of z/OSMF is to improve system programmer productivity, and make functions easier to understand and use. This improvement makes system programmers more productive as quickly as possible with

the least amount of training. You can automate tasks, reduce the learning curve, and improve productivity through a modern, simplified, and intuitive task-based, browser-based interface. z/OSMF is aimed at a mixed skills 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 own

challenges. Novice system programmer might need to understand the "big picture" and how procedures are done. Novices also need access to documentation about procedures and tasks, and implement them according to the rules of the enterprise. Experienced system programmers 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 productive and contribute more to their business. Although z/OS delivered simplification since it was introduced, z/OSMF brings a new dimension and focus to simplification. z/OSMF simplifies and modernizes the user experience and helps make pertinent information readily available and easily accessible.

Social Processes and the Spatial Unevenness of Population Ageing Wiley
Population ageing is projected to affect all countries across the world in coming decades. The current rate of population ageing is unprecedented in human history with population projections indicating that this will be an enduring trend. Moreover, population ageing is spatially pervasive,

affecting every man, woman and child. This has considerable implications for policy responding to the economic, social and healthcare outcomes of population ageing. The potential economic implications have been likened to those of the 2008 global financial crisis. This book examines the patterns and causes of uneven population ageing. It identifies those countries and

localities most likely to experience population ageing and the reasons for this. Attention is also given to the role that youth migration, labour force migration, retirement migration and ageing in place have in influencing the spatial concentrations of older people. The book brings together a range of diverse international case studies to illustrate the importance of

understanding the causes of population ageing. Case studies include a review of ageing in Florida's (USA) labour force, an investigation into the housing arrangements for the elderly in Northern Ireland and an assessment of the environmental stewardship activities of Grey Nomads on Western Australia's remote north coast. Dictionary and Introduction to Global Environmental

Governance

John Wiley & Sons
 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 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 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 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 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 plans, health, and opportunities for personal

expression and social engagement to the new ecology of aging today

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production IBM Redbooks

Whether the result of an oil well blowout, vessel collision or grounding, 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 spill, water depth, environmental conditions, affected biomes, potential human community impact, and available resources may vary significantly. Also, each spill may be governed by policy guidelines, such as those set forth in the National Response Plan, Regional Response Plans, or Area Contingency Plans. To respond effectively to the specific conditions presented during an oil spill, spill responders have used a variety of response optionsâ€"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 dispersants. Because each response method has advantages and disadvantages

, it is important to understand specific scenarios where a net benefit may be 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 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 unprecedented use of dispersants via both surface application and subsea injection. The magnitude of the spill stimulated interest and funding for research on oil 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 associated with

dispersant use.
ACS Without an Attitude
 IBM Redbooks
 A unique book that consists entirely of test automation case studies from a variety of domains - from the top names in the field *
 *Proven advice to empower development organizations to save time by mirroring others' experiences and save money by avoiding others' mistakes.
 *Insightful case studies from a wide variety of

domains, including aerospace, pharmaceuticals, insurance, technology, and telecommunications. *Focuses on the basic issues, rather than technology trends, to give the book a long shelf life. The practice of test automation is becoming more and more popular, but many organizations are not yet experiencing success with it. This book unveils the secrets of how automation

has been made to work in reality. The knowledge gained by reading this book can save months or years of effort in automating software testing by helping organizations avoid expensive mistakes and take advantage of proven ideas. By its nature, this book shows the current state of software test automation practice. The authors aim to keep the contributions focused on

those things that are more universal (e.g. people issues, return on investment, etc.) and to minimize detailed technical content where this does not impede the process of learning valuable lessons, in order to give the book as long a shelf life as possible. Software practitioners always enjoy reading about what happened to others. For example, at conferences, case study

presentations are usually very well attended. The authors/editors have gathered together a collection of experiences from a cross-section of industries and countries, both success stories and failures, in both agile and traditional development. In addition to the case studies, the authors/editors comment on issues raised in these stories, and also include a chapter summarizing good practices

and common pitfalls. Earth Observation Open Science and Innovation IBM Redbooks Hyperspectral Satellites and System Design is the first book on this subject. It provides a systematic analysis and detailed design of the entire development process of hyperspectral satellites. Derived from the author's 25-year firsthand experience as a technical lead of space missions at

the Canadian Space Agency, the book offers engineers, scientists, and decision-makers detailed knowledge and guidelines on hyperspectral satellite system design, trade-offs, performance modeling and simulation, optimization from component to system level, subsystem design, and implementation strategies. This information will help reduce the

risk, shorten the development period, and lower the cost of hyperspectral satellite missions. This book is a must-have reference for professionals in developing hyperspectral satellites and data applications. It is also an excellent introductory book for early practitioners and students who want to learn more about hyperspectral satellites and their applications. A Novel CRC

Press
This IBM® Redbooks® publication covers IBM TS7700 R4.2. The IBM TS7700 is part of a family of IBM Enterprise tape products. This 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 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 over two decades. Off loading to physical tape behind a TS7700 is utilized by hundreds of organizations around the world. Using the same hierarchical 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

<p>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 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 IBM TS7760 R4.2 Cloud Storage Tier Guide, redp-5514 at:</p>	<p>http://www.redbooks.ibm.com/abstracts/redp5514.html The IBM TS7700 offers a modular, scalable, and high-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 hierarchy is managed by robust storage management microcode with extensive self-management capability. It</p>	<p>includes the following advanced functions: 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 physical tape drive and library outages Reduction in cost, time, and complexity by moving primary workloads to virtual tape More efficient procedures for managing</p>
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<p>daily backup and restore processing Infrastructure simplification through reduction of the number of physical tape libraries, drives, and media TS7700 delivers 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 generation of TS7700 Synchronous and asynchronous</p>	<p>replication Tight integration with IBM Z and DFSMS policy management Optional Transparent 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 access to all data independent of where it exists The TS7760T writes data by policy to physical tape through</p>	<p>attachment to high-capacity, high-performance 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® technology. They provide improved performance for most IBM Z tape workloads when compared to the previous generations of IBM TS7700.</p> <p>A New</p>
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Approach to Understanding Agricultural Biodiversity, Ecosystem Services and Sustainable Development

t Addison-Wesley Professional
This book assembles and organizes a selected range of methods and techniques that every planning practitioner should know to be successful in the contemporary global urban landscape. The book is unique because it

links different aspects of the planning/policy-making enterprise with the appropriate methods and approaches, thus contextualizing the use of specific methods and techniques within a sociopolitical and ethical framework. This volume familiarizes readers with the diverse range of methods, techniques, and skills that must be applied at different scales in dynamic

workplace environments where planning policies and programs are developed and implemented. This book is an invaluable resource in helping new entrants to the planning discourse and profession set aside their own disciplinary biases and empowering them to use their expert knowledge to address societal concerns.

Coffee

Agroecology
IBM Redbooks
The Soil
Organic

<p>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 uncertainty assessments. Guidance is</p>	<p>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 has been updated with knowledge</p>	<p>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 various soil properties.</p>
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