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IBM TS7700 Release 4.2 Guide IBM Redbooks 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 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: <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 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 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 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 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. **IBM TS7760 R4.2 Cloud Storage Tier Guide** IBM Redbooks Building on over 20 years of virtual tape experience, the TS7760 now supports the ability to store virtual tape volumes in an object store. This IBM Redpaper publication helps you set up and configure the new cloud object storage support for IBM Cloud Object Storage (COS) or Amazon Web Services (AWS). The TS7700 supported off loading to physical tape for over two decades. Off loading to physical tape behind a TS7700 is used by hundreds of organizations around the world. By using the same hierarchical storage techniques, the TS7700 can also off load to object storage. Because object storage is cloud-based and accessible from different regions, the TS7760 Cloud Storage Tier support essentially allows the cloud to be an extension of the grid. In this IBM Redpaper publication, we provide a brief overview of cloud technology with an emphasis on Object Storage. Object Storage is used by a broad set of technologies, including those technologies that are exclusive to IBM Z®. The aim of this publication is to provide a basic understanding of cloud, Object Storage, and different ways it can be integrated into your environment. This Redpaper is intended for system architects and storage administrators with TS7700 experience who want to add the support of a Cloud Storage Tier to their TS7700 solution. **IBM TS7700 Series DS8000 Object Store User's Guide Version 2.0** IBM Redbooks The IBM® TS7700 features a functional enhancement that allows for the TS7700 to act as an object store for transparent cloud tiering with IBM DS8000® (DS8K), DFSMSshsm (HSM), and native DFSMSdss (DSS). This function can be used to move data sets directly from DS8000 to TS7700. This IBM Redpaper publication describes the client value, and how DFSMS, DS8000, and TS7700 are set up to enable and use the function. **Public Health Consequences of E-Cigarettes** National Academies Press Millions of Americans use e-cigarettes. Despite their popularity, little is known about their health effects. Some suggest that e-cigarettes likely confer lower risk compared to combustible tobacco cigarettes, because they do not expose users to toxicants produced through combustion. Proponents of e-cigarette use also tout the potential benefits of e-cigarettes as devices that could help combustible tobacco cigarette smokers to quit and thereby reduce tobacco-related health risks. Others are concerned about the exposure to potentially toxic substances contained in e-cigarette emissions, especially in individuals who have never used tobacco products such as youth and young adults. Given their relatively recent introduction, there has been little time for a scientific body of evidence to develop on the health effects of e-cigarettes. Public Health Consequences of E-Cigarettes reviews and critically assesses the state of the emerging evidence about e-cigarettes and health. This report makes recommendations for the improvement of this research and highlights gaps that are a priority for future research. **One Child Do We Have a Right to More?** Oxford University Press, USA Sarah Conly argues that at present we do not have the right to have more than one child. We do not need to have more than one to live a good life, and having more than one when we are at risk of depleting our environmental resources is simply too dangerous to others. **Revolutionizing K-12 Blended Learning Through the i2flex Classroom Model** "This book presents a well-rounded discussion on the i2Flex model, highlighting methods for K-12 course design, delivery, and evaluation in addition to teacher performance assessment in a blended i2Flex environment"-- **FCC Record A Comprehensive Compilation of Decisions, Reports, Public Notices, and Other Documents of the Federal Communications Commission of the United States World Intellectual Property Indicators 2020** WIPO This authoritative report analyzes IP activity around the globe. Drawing on 2019 filing, registration and renewals statistics from national and regional IP

offices and WIPO, it covers patents, utility models, trademarks, industrial designs, microorganisms, plant variety protection and geographical indications. The report also draws on survey data and industry sources to give a picture of activity in the publishing industry.

Facebook Portal TV User Manual The Complete Illustrated, Practical Guide with Tips & Tricks to Maximizing Your Portal TV A Comprehensive User Guide to Facebook Portal TV Facebook's Portal TV is a camera that turns your television into a giant video chat display. It's compatible with both Messenger and WhatsApp, and features an AI-powered camera that automatically pans and zooms to keep you in frame. The large TV screen and wide field-of-view make for a great video chat experience. If both parties have a Portal TV, they can watch videos together. There are many other factors that make up the overall goodness of the device. We got a chance at handling the device and we are presenting our User Guide to help you maximize your Facebook Portal TV. This book is written in simple and clear terms with a step-by-step approach and with tips and tricks that will help you to master your Portal TV within the shortest period of time. Add this book to your library now and use your Portal TV to the fullest

A Legal Guide for ICE Detainees Petitioning for Release from Indefinite Detention American Bar Association "This manual ... explains how to petition for administrative review of your custody, how to seek release in federal court if you are not released after your custody review, how to file motions for appointment of counsel and how to have any filing fees waived if you do not have the means to pay for them.... It also addresses the cases of Mariel Cubans and inadmissible aliens." -- Pref.

Balance of Payments Compilation Guide International Monetary Fund A companion document to the fifth edition of the Balance of Payments Manual, the Balance of Payments Compilation Guide shows how the conceptual framework described in the Manual may be implemented in practice. The primary purpose of the Guide is to provide practical guidance for using sources and methods to compile statistics on the balance of payments and the international investment position. The Guide is designed to assist balance of payments compilers and statisticians in understanding the relative strengths and weaknesses of various approaches. The material reflects the emergence of new data sources and adaptations in the application of statistical methodologies to changing circumstances. Discussed in the Guide are all of the tasks that a BOP compiler normally performs. Appendices contain a set of model BOP questionnaires and a set of model BOP publication tables. Relationships between the balance of payments statistics and relevant aspects of national accounts are covered as well.

Lifelong Technology-Enhanced Learning 13th European Conference on Technology Enhanced Learning, EC-TEL 2018, Leeds, UK, September 3-5, 2018, Proceedings Springer This book constitutes the proceedings of the 13th European Conference on Technology Enhanced Learning, EC-TEL 2018, held in Leeds, UK, in September 2018. The 42 full and short papers, 7 demo papers, and 23 poster papers presented in this volume were carefully reviewed and selected from 142 submissions. This year, the European Conference on Technology-Enhanced Learning (EC-TEL) will engage researchers, practitioners, educational developers, entrepreneurs and policy makers in a joint discussion on how to put science, technology and practice at the service of learning to embrace these challenges on the topic: Lifelong technology enhanced learning: Dealing with the complexity of 21st century challenges. /div Chapter "" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

The LEGO Trains Book No Starch Press Learn the model-making process from start to finish, including the best ways to choose scale, wheels, motors, and track layout. Get advice for building steam engines, locomotives, and passenger cars, and discover fresh ideas and inspiration for your own LEGO train designs. Inside you'll find: -A historical tour of LEGO trains -Step-by-step building instructions for models of the German Inter-City Express (ICE), the Swiss "Crocodile," and a vintage passenger car -Tips for controlling your trains with transformers, receivers, and motors -Advice on advanced building techniques like SNOT (studs not on top), microstriping, creating textures, and making offset connections -Case studies of the design process -Ways to use older LEGO pieces in modern designs For ages 10+

Integrating the IBM MQ Appliance into your IBM MQ Infrastructure IBM Redbooks This IBM® Redbooks® publication describes the IBM MQ Appliance M2000, an application connectivity option that combines secure, reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance. This book presents underlying concepts and practical advice for integrating the IBM MQ Appliance M2000 into an IBM MQ infrastructure. Therefore, it is aimed at enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment. Details about new functionality and changes in approaches to application messaging are also described. The authors' goal is to help readers make informed design and implementation decisions so that the users can successfully integrate the IBM MQ Appliance M2000 into their environments. A broad understanding of enterprise messaging is required to fully comprehend the details that are provided in this book. Readers are assumed to have at least some familiarity and experience with complimentary IBM messaging products.

Early Intervention in Psychotic Disorders Springer Science & Business Media The papers presented here, written by experts from all parts of the globe, describe efforts that represent a revolutionary moment in the treatment of schizophrenia disorders as, with caution, we begin to shift the standard of treatment toward early intervention and prevention. Contributions are organised according to the early course of psychosis. The book is of critical importance to anyone interested in psychotic disorders and the revolutionary impact that the field of early detection and intervention is having on traditional conceptualisations of psychotic illness.

Marmosets and Tamarins Pocket Identification Guide Conservation International Tropical Pocket Guide Series Laminated identification guide illustrating 61 species and subspecies of extant marmosets and tamarins in Central and South America. Includes range maps.

IBM DS8000 Transparent Cloud Tiering (DS8000 Release 9.2) IBM Redbooks IBM DFSMS and the IBM DS8000 added functionality to provide elements of serverless data movement, and for IBM z/OS® to communicate with a storage cloud. The function is known as Transparent Cloud Tiering and is composed of the following key elements: A gateway in the DS8000, which allows the movement of data to and from Object Storage by using a network connection, with the option to encrypt data in the Cloud. DFSMSShm enhancements to support Migrate and Recall functions to and from the Object Storage. Other commands were enhanced to monitor and report on the new functionality. DFSMSShm uses the Web Enablement toolkit for z/OS to create and access the metadata for specific clouds, containers, and objects. DFSMSdss enhancements to provide some basic backup and restore functions to and from the cloud. The IBM TS7700 can also be set up to act as if it were cloud storage from the DS8000 perspective. This IBM Redbooks publication is divided into the following parts: Part 1 provides you with an introduction to clouds. Part 2 shows you how we set up the Transparent Cloud Tiering in a controlled laboratory and how the new functions work. We provide points to consider to help you set up your storage cloud and integrate it into your operational environment. Part 3 shows you how we used the new functionality to communicate with the cloud and to send data and retrieve data from it.. This edition applies to DS8900F Release 9.2 and covers more recent features of TCT such as multi-cloud connections. along with additional advice for high availability

cloud connectivity and DFSMSshsm improvements. **Learning a Living First Results of the Adult Literacy and Life Skills Survey** OECD Publishing Based on the Adult Literacy and Life Skills survey conducted in Bermuda, Canada, Italy, Mexico (Nuevo Leon), Norway, and the United States of America in 2003 and 2004, this book presents an initial set of findings that shed new light on the twin processes of skill gain and loss. **How to Talk to Your Cat About Gun Safety and Abstinence, Drugs, Satanism, and Other Dangers That Threaten Their Nine Lives** Hachette UK Long gone are the good old days when a cat's biggest worries were mean dogs or a bath. Modern cats must confront satanists, online predators, the possibility of needing to survive in a post-apocalyptic wasteland, and countless other threats to their nine lives. For over four decades, the American Association of Patriots have stood at the vanguard of our country's defense by helping to prepare our nation's cat owners for the difficult conversations they dread having with their pets. Written in a simple Q&A format, HOW TO TALK TO YOUR CAT ABOUT GUN SAFETY answers crucial questions such as, 'What is the right age to talk to my cat about the proper use of firearms?' and 'What are the benefits of my cat living a lifestyle of abstinence?' and especially 'Why does my cat need to use the internet? Can't he just play with yarn like cats used to do?' America - and our cats - stand at a precipice. It will take courage, and it will take hard work, but armed with the knowledge within these pages, we can make our cats - and America - great again! **Multi-Enterprise File Transfer with WebSphere Connectivity** IBM Redbooks This IBM® Redbooks® publication describes how to exchange data between applications running in two separate enterprises reliably and securely. This book includes an overview of the concepts of managed file transfer, the technologies that can be used, and common topologies for file transfer solutions. It then provides four scenarios that address different requirements. These scenarios provide a range of options that can be suited to your individual needs. This book is intended for anyone who needs to design or develop a file transfer solution for his enterprise. The first scenario shows the use of an HTTPS web gateway to allow files to be transferred from an external web client to an internal WebSphere MQ File Transfer Edition backbone network. This option uses the WebSphere MQ File Transfer Edition Web Gateway SupportPac FO02. The second scenario uses the WebSphere MQ File Transfer Edition bridge agent to allow files to be transferred from an external File Transfer Protocol (FTP)/Secure File Transfer Protocol (SFTP) server to a WebSphere MQ File Transfer Edition backbone network The third scenario extends the concept of file transfer between enterprises by introducing more sophisticated transfer capabilities, along with enhanced security. This scenario uses the IBM WebSphere DataPower B2B Appliance XB60 to look at the specific case of file transfers between business partners. The last scenario also illustrates the integration of the IBM WebSphere DataPower B2B Appliance XB60 and WebSphere MQ File Transfer Edition, but in this case, non-business-to-business protocols are used. The file transfer is further enhanced through the use of WebSphere® Message Broker to mediate the file transfer for routing and protocol transformation within the enterprise. **Understanding Renewable Energy Systems** Routledge By mid-century, renewable energy must cover all of our energy supply if we are to phase out nuclear and successfully stop climate change. Now updated and expanded, the 2nd edition of this textbook covers the full range of renewable energy systems and now also includes such current trends as solar power storage, power-to-gas technologies, and the technology paths needed for a successful and complete energy transition. The topics are treated in a holistic manner, bringing together maths, engineering, climate studies and economics, and enabling readers to gain a broad understanding of renewable energy technologies and their potential. Numerous examples are provided for calculations, and graphics help visualize the various technologies and mathematical methodologies. Understanding Renewable Energy Systems is an ideal companion for students of renewable energy at universities or technical colleges on courses such as renewable energy, electrical engineering, engineering technology, physics, process engineering, building engineering, environment, applied mechanics and mechanical engineering, as well as scientists and engineers in research and industry. **Dust Control Handbook for Industrial Minerals Mining and Processing** CreateSpace Throughout the mining and processing of minerals, the mined ore undergoes a number of crushing, grinding, cleaning, drying, and product sizing operations as it is processed into a marketable commodity. These operations are highly mechanized, and both individually and collectively these processes can generate large amounts of dust. If control technologies are inadequate, hazardous levels of respirable dust may be liberated into the work environment, potentially exposing workers. Accordingly, federal regulations are in place to limit the respirable dust exposure of mine workers. Engineering controls are implemented in mining operations in an effort to reduce dust generation and limit worker exposure. **Blue Book Payment and Securities Settlement Systems in the European Union Endothelial Cell Culture** Cambridge University Press Contains information and recipe-style techniques for culturing different types of endothelial cell. **Mycotoxins in Food Detection and Control** Elsevier Mycotoxins, toxic compounds produced by fungi, pose a significant contamination risk in both animal feed and foods for human consumption. With its distinguished editors and international team of contributors, Mycotoxins in food summarises the wealth of recent research on how to assess the risks from mycotoxins, detect particular mycotoxins and control them at differing stages in the supply chain. Part one addresses risk assessment techniques, sampling methods, modelling and detection techniques used to measure the risk of mycotoxin contamination and the current regulations governing mycotoxin limits in food. Part two looks at how the risk of contamination may be controlled, with chapters on the use of HACCP systems and mycotoxin control at different stages in the supply chain. Two case studies demonstrate how these controls work for particular products. The final section details particular mycotoxins, from ochratoxin A and patulin to zearalenone and fumonisins. Mycotoxins in food is a standard reference for all those concerned with ensuring the safety of food. Discusses the wealth of recent research in this important area Covers risk assessment, detection of particular mycotoxins and how to control them throughout the supply chain Describes how the risk of contamination can be controlled, including the use of HACCP systems **Pressure Vessel Design Manual** Butterworth-Heinemann Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30

countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use **A Deal with the Elf King** Perfect for fans of A Court of Thorns and Roses and Uprooted, this stand-alone, fantasy romance about a human girl and her marriage to the Elf King is impossible to put down! The elves come for two things: war and wives. In both cases, they come for death. Three-thousand years ago, humans were hunted by powerful races with wild magic until the treaty was formed. Now, for centuries, the elves have taken a young woman from Luella's village to be their Human Queen. To be chosen is seen as a mark of death by the townsfolk. A mark nineteen-year-old Luella is grateful to have escaped as a girl. Instead, she's dedicated her life to studying herbology and becoming the town's only healer. That is, until the Elf King unexpectedly arrives... for her. Everything Luella had thought she'd known about her life, and herself, was a lie. Taken to a land filled with wild magic, Luella is forced to be the new queen to a cold yet blisteringly handsome Elf King. Once there, she learns about a dying world that only she can save. The magical land of Midscape pulls on one corner of her heart, her home and people tug on another... but what will truly break her is a passion she never wanted. A Deal with the Elf King is a complete, stand-alone novel, inspired by the tales of Hades and Persephone, as well as Beauty and the Beast, with a "happily ever after" ending. It's perfect for fantasy romance fans looking for just the right amount of steam and their next slow-burn and swoon-worthy couple.

Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results (rev. Ed.) DIANE Publishing

Results of measurements and conclusions derived from them constitute much of the technical information produced by the National Institute of Standards and Technology (NIST). In July 1992 the Director of NIST appointed an Ad Hoc Committee on Uncertainty Statements and charged it with recommending a policy on this important topic. The Committee concluded that the CIPM approach could be used to provide quantitative expression of measurement that would satisfy NIST's customers' requirements. NIST initially published a Technical Note on this issue in Jan. 1993. This 1994 edition addresses the most important questions raised by recipients concerning some of the points it addressed and some it did not. Illustrations.

The Romani World A Historical Dictionary of the the Gypsies Gypsy history and life. Professionals working with Gypsies and migrant Roma from the CEE will also find it invaluable."--

BOOK JACKET. **Cotton Production Manual** University of California, Agriculture and Natural Resources The Cotton Production Manual was written for growers everywhere who strive to improve cotton quality and productivity. Features a season-by season production calendar with pest and disease control, fertilization, and irrigation tips and a Diagnostic Guide to help you identify crop problems in the field with management options. 12 pages of color plates.

IBM MQ V8 Features and Enhancements IBM Redbooks The power of IBM® MQ is its flexibility combined with reliability, scalability, and security. This flexibility provides a large number of design and implementation choices. Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure. Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages. These applications can run within a substantial array of software and hardware environments. Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information technology (IT) system of a business. IBM MQ V8.0 was released in June 2014. Before that release, the product name was IBM WebSphere® MQ. This IBM Redbooks® publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood. A broad understanding of the product features is key to making informed design and implementation choices for both the infrastructure and the applications that access it. Details of new areas of function for IBM MQ are introduced throughout this book, such as the changes to security, publish/subscribe clusters, and IBM System z exploitation. This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application.

All American Christmas HarperCollins A #1 NEW YORK TIMES BESTSELLER! Pull up a chair, pour some eggnog, and enjoy the Christmas spirit with friends... From the wind-swept, snowy ranges of Wyoming to Florida beaches glowing with Christmas lights, All American Christmas traces holiday traditions across the United States. In this beautiful personal keepsake, Rachel Campos-Duffy and Sean Duffy present a dazzling collection of emotional stories, treasured family photographs, and homegrown Christmas recipes from some of Fox News' most beloved personalities. Dana Perino takes readers out west to the cattle ranch where she celebrated Christmas with real life "Marlboro Men"—her uncles and grandfather. Maria Bartiromo reflects on growing up in Brooklyn and the famously brilliant light displays in her neighborhood. Brit Hume looks back at the day he and a friend rushed onto the Washington Senators' field—and how his parents later warned him that he was now on Santa Claus' naughty list. For Lauren Green, her understanding of Christmas has evolved with her growing faith. Beautifully designed to reflect the color and spirit and sparkle of the season and featuring 16 pages of color photographs, All American Christmas is a gift of love from the Fox News family and is sure to be cherished for seasons to come.

Cost Estimating Guide for Road Construction Climate Change and Cities Second Assessment Report of the Urban Climate Change Research Network Cambridge University Press The Urban Climate Change Research Network's Second Assessment Report on Climate Change in Cities (ARC3.2) is the second in a series of global, science-based reports to examine climate risk, adaptation, and mitigation efforts in cities. The book explicitly seeks to explore the implications of changing climatic conditions on critical urban physical and social infrastructure sectors and intersectoral concerns. The primary purpose of ARC3.2 is to inform the development and implementation of effective urban climate change policies, leveraging ongoing and planned investments for populations in cities of developing, emerging, and developed countries. This volume, like its predecessor, will be invaluable for a range of audiences involved with climate change and cities: mayors, city officials and policymakers; urban planners; policymakers charged with developing climate change mitigation and adaptation programs; and a broad spectrum of researchers and advanced students in the environmental sciences.

Sediment Classification Methods Compendium Lithium-ion Batteries A Machine-generated Summary of Current Research "This is the first machine-generated scientific book in chemistry published by Springer Nature. Serving as an innovative prototype defining the current status of the technology, it also provides an overview about the latest trends of lithium-ion batteries research. This book explores future ways of informing researchers and professionals. State-of-the-art computer algorithms were applied to: select relevant sources from Springer Nature publications, arrange these in a topical order, and provide succinct summaries of these articles. The result is a cross-corpora auto-summarization of current texts, organized by means of a similarity-based clustering routine in coherent chapters and sections. This book summarizes more than 150 research articles published from 2016 to 2018 and provides an informative and concise overview of recent research into anode and cathode materials as well as further aspects such as separators, polymer electrolytes, thermal behavior and modelling. With this prototype, Springer Nature has begun an innovative journey to explore the field of machine-

generated content and to find answers to the manifold questions on this fascinating topic. Therefore it was intentionally decided not to manually polish or copy-edit any of the texts so as to highlight the current status and remaining boundaries of machine-generated content. Our goal is to initiate a broad discussion, together with the research community and domain experts, about the future opportunities, challenges and limitations of this technology."--Publisher's website.

The Second World Ocean Assessment World Ocean Assessment II The second World Ocean Assessment is a collaborative effort of hundreds of experts from all regions of the world, a comprehensive and integrated assessment of the state of marine environment.

U.S. Regulation of the International Securities and Derivatives Markets Aspen Law & Business Publishers

Embedded Computing and Mechatronics with the PIC32 Microcontroller Newnes For the first time in a single reference, this book provides the beginner with a coherent and logical introduction to the hardware and software of the PIC32, bringing together key material from the PIC32 Reference Manual, Data Sheets, XC32 C Compiler User's Guide, Assembler and Linker Guide, MIPS32 CPU manuals, and Harmony documentation. This book also trains you to use the Microchip documentation, allowing better life-long learning of the PIC32. The philosophy is to get you started quickly, but to emphasize fundamentals and to eliminate "magic steps" that prevent a deep understanding of how the software you write connects to the hardware. Applications focus on mechatronics: microcontroller-controlled electromechanical systems incorporating sensors and actuators. To support a learn-by-doing approach, you can follow the examples throughout the book using the sample code and your PIC32 development board. The exercises at the end of each chapter help you put your new skills to practice. Coverage includes: A practical introduction to the C programming language Getting up and running quickly with the PIC32 An exploration of the hardware architecture of the PIC32 and differences among PIC32 families Fundamentals of embedded computing with the PIC32, including the build process, time- and memory-efficient programming, and interrupts A peripheral reference, with extensive sample code covering digital input and output, counter/timers, PWM, analog input, input capture, watchdog timer, and communication by the parallel master port, SPI, I2C, CAN, USB, and UART An introduction to the Microchip Harmony programming framework Essential topics in mechatronics, including interfacing sensors to the PIC32, digital signal processing, theory of operation and control of brushed DC motors, motor sizing and gearing, and other actuators such as stepper motors, RC servos, and brushless DC motors For more information on the book, and to download free sample code, please visit <http://www.nu32.org> Extensive, freely downloadable sample code for the NU32 development board incorporating the PIC32MX795F512H microcontroller Free online instructional videos to support many of the chapters

Nfpa 58 Liquefied Petroleum Gas Code