

## Guideline For Api 15le

"As a consequence of rapid changes in surgical technique and incorporation of new robotic technology and advanced intraoperative imaging, the second edition of this important textbook reflects these rapid changes in the field of robotic urologic surgery. The goals of this textbook are three-fold. First, it provides a comprehensive update on surgical techniques pertinent to each robotic urologic procedure being performed worldwide, spanning procedures performed for both upper urinary tract (e.g. adrenal, kidney, ureter) and lower urinary tract (e.g. bladder, prostate, seminal vesicle, vagina) as well as adult and pediatric conditions. Second, advances in new robotic instruments and technology as well as advanced intraoperative imaging modalities used for surgical navigation are incorporated. Third, to further improve upon the first edition, this textbook is highly illustrated with schematic drawings to aid an understanding of the surgical techniques. Links to online video content is presented throughout. Atlas of Robotic Urologic Surgery will serve as a vital step-by-step, highly illustrated comprehensive yet concise resource to urologic surgeons, trainees and robotic surgical assistants embarking on robotic surgery as part of their surgical armamentarium for treatment of urologic diseases."--

"Program summarizes information on 2900 timbers-yielding species and has been extended with a search facility for wood properties and an interactive wood-anatomy identification system".

Provides background information, historical perspective, and expert commentary on the ASME B31.3 Code requirements for process piping design and construction. It provides the most complete coverage of the Code that is available today and is packed with additional information useful to those responsible for the design and mechanical integrity of process piping.

This book studies and disaggregates the "crisis of the suburbs" in Paris through the stories of inhabitants in 4000sud: a French suburban neighborhood. These stories have become pressing in the aftermath of the recent wave of terrorist attacks in France. The French banlieues are some of the most prominent and infamous examples of urban neighborhoods affected by vandalism, rioting, criminality and chronic poverty. Based on extensive ethnographic research, the book explores the making of the French suburban crisis as constituted both externally (by state actors) and internally, by young people at the street corner. It reveals how the French state's understanding of banlieue violence, and subsequent policy measures, contribute to the creation and hardening of boundaries between "us" and "them". The book takes the reader on a journey from the city center of Paris to the heart of neighborhood 4000sud. It unveils how young suburban residents try to cope simultaneously with the negative images imposed on them from the outside, and the disciplinary expectations of their peers on the street. In search for identity and dignity they navigate life through diverging strategies: they escape the neighborhood, contest stereotypical images through (violent) protest, or confirm and act out the image of "gangster from the ghetto". Drawing on Urban Sociology, Human Geography, and Cultural Anthropology, this book offers new analytical vocabularies to understand the connections between place-making processes, social identity dynamics and violent performances. The book is written for a broad audience of students, scholars and policy makers interested in contemporary

(sub)urban violence in Europe.

This book constitutes the proceedings of the 23rd International Conference on Theory and Practice of Digital Libraries, TPDL 2019, held in Oslo, Norway, in September 2019. The 16 revised full papers, 12 short papers and 18 poster papers presented were carefully reviewed and selected from 75 submissions. The general theme of TPDL 2019 was Connecting with Communities and so the papers attempt to facilitate establishing connections and convergences between diverse research communities such as Digital Humanities, Information Sciences and others that could benefit from ecosystems offered by digital libraries and repositories. To become especially useful to the diverse research and practitioner communities digital libraries need to consider special needs and requirements for effective data utilization, management and exploitation.

Published by the Plastics Pipe Institute (PPI), the Handbook describes how polyethylene piping systems continue to provide utilities with a cost-effective solution to rehabilitate the underground infrastructure. The book will assist in designing and installing PE piping systems that can protect utilities and other end users from corrosion, earthquake damage and water loss due to leaky and corroded pipes and joints.

Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will serve as a catalyst for much of our innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future Internet research is therefore a must. The Future Internet Assembly (FIA) is a successful and unique bi-annual conference that brings together participants of over 150 projects from several distinct but interrelated areas in the EU Framework Programme 7. The 20 full papers included in this volume were selected from 40 submissions, and are preceded by a vision paper describing the FIA Roadmap. The papers have been organized into topical sections on the foundations of Future Internet, the applications of Future Internet, Smart Cities, and Future Internet infrastructures.

This Book of Abstracts is the main publication of the 71st Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

This volume constitutes refereed proceedings of the Third International Conference on Smart Applications and Data Analysis, SADASC 2020, held in Marrakesh, Morocco. Due to the COVID-19 pandemic the conference has been postponed to June 2020. The 24 full papers and 3 short papers presented were thoroughly reviewed and selected from 44 submissions. The papers are organized according to the following topics: ontologies and meta modeling; cyber physical systems and block-chains; recommender systems; machine learning based applications; combinatorial optimization; simulations and deep learning.

The value of echocardiography in the diagnostic work-up of patients with suspected acute pulmonary embolism.- New developments in the thrombolytic therapy of venous thrombosis.- Mechanism of blood coagulation. Newer aspects of anticoagulant and

antithrombotic therapy. MR-angiography in the diagnosis of pulmonary embolism. Scintigraphy-ventilation/perfusion scanning and imaging of the embolus.- Clinical course and prognosis of acute pulmonary embolism.- The molecular mechanisms of inherited thrombophilia.

This book focuses on novel design and systems engineering approaches, including theories and best practices, for promoting a better integration of people and engineering systems. It covers a range of innovative topics related to: development of human-centered systems; interface design and human-computer interaction; usability and user experience; innovative materials in design and manufacturing; biomechanics and physical rehabilitation, as well as safety engineering and systems complexity. The book, which gathers selected papers presented at the 3rd International Conference on Human Systems Engineering and Design: Future Trends and Applications (IHSED 2020), held on September 22-24, 2020, at Juraj Dobrila University of Pula, in Pula, Croatia, provides researchers and practitioners with a snapshot of the state-of-the-art and current challenges in the field of human systems engineering and design.

Drug therapy via inhalation route is at the cutting edge of modern drug delivery research. There has been significant progress on the understanding of drug therapy via inhalation products. However, there are still problems associated with their formulation design, including the interaction between the active pharmaceutical ingredient(s) (APIs), excipients and devices. This book seeks to cover some of the most pertinent issues and challenges of such formulation design associated with industrial production and desirable clinical outcome. The chapter topics have been selected with a view to integrating the factors that require consideration in the selection and design of device and formulation components which impact upon patient usability and clinical effectiveness. The challenges involved with the delivery of macromolecules by inhalation to both adult and pediatric patients are also covered. Written by leading international experts from both academia and industry, the book will help readers (formulation design scientists, researchers and post-graduate and specialized undergraduate students) develop a deep understanding of key aspects of inhalation formulations as well as detail ongoing challenges and advances associated with their development.

Although interest in machine learning has reached a high point, lofty expectations often scuttle projects before they get very far. How can machine learning—especially deep neural networks—make a real difference in your organization? This hands-on guide not only provides the most practical information available on the subject, but also helps you get started building efficient deep learning networks. Authors Adam Gibson and Josh Patterson provide theory on deep learning before introducing their open-source Deelearning4j (DL4J) library for developing production-class workflows. Through real-world examples, you'll learn methods and strategies for training deep network architectures and running deep learning workflows on Spark and Hadoop with DL4J. Dive into machine learning concepts in general, as well as deep learning in particular Understand how deep networks evolved from neural network fundamentals Explore the major deep network architectures, including Convolutional and Recurrent Learn how to map specific deep networks to the right problem Walk through the fundamentals of tuning general neural networks and specific deep network architectures Use vectorization techniques for different data types with DataVec, DL4J's workflow tool

Learn how to use DL4J natively on Spark and Hadoop  
Petroleum Engineer International Federal Register Handbook of Polyethylene  
PipePlastics Pipe Institute

Aspects of Leadership is a book that brings together scholars from different disciplines and practitioners from a broad variety of backgrounds to address three key areas: Ethics; Law, and Spirituality. Aspects of Leadership intends to inform leaders, and the general public, about the challenges of ethical decision making, the application of the law of war and the important role of spirituality in the battlefield. Essays are about ethics and armed conflict in the 21st Century. Many of the more complex challenges in operating among foreign populations stem from trying to understand and work with people who follow different religious, political, and legal systems. Around the world, notions of leadership and authority, methods for judging and resolving disputes, and concepts of morally and religiously acceptable behavior vary radically from country to country or even from region to region within a country. Misunderstandings and conflicts between the local population and outside military forces can quickly arise due to different religious or cultural interpretations of events and actions. When handled poorly, such misunderstandings may even escalate to serious hostilities on the part of the local population, resulting in violent conflict and a widening gap between the population and military or security forces in the area."

Mass Spectrometry is an ideal textbook for students and professionals as well as newcomers to the field. Starting from the very first principles of gas-phase ion chemistry and isotopic properties, the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques. Step-by-step, the reader learns how mass spectrometry works and what it can do. The book comprises a balanced mixture of practice-oriented information and theoretical background. It features a clear layout and a wealth of high-quality figures. Exercises and solutions are located on the Springer Global Web.

An excellent resource for nurses caring for patients receiving chemotherapy, this Third Edition has been revised to include new chapters on the care of the pediatric oncology patient, chemotherapy in the elderly, and new frontiers in chemotherapy. Information essential to safe drug delivery is combined with the essentials of nursing diagnosis, which focuses on minimizing toxic effects and managing side effects.

Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook, edited by Mohinder L. Nayyar, with contribution from top experts in the field. The Handbook's 43 chapters--14 of them new to this edition--and 9 new appendices provide, in one place, everything you need to work with any type of piping, in any type of piping system: design layout selection of materials fabrication and components operation installation maintenance This

world-class reference is packed with a comprehensive array of analytical tools, and illustrated with fully-worked-out examples and case histories. Thoroughly updated, this seventh edition features revised and new information on design practices, materials, practical applications and industry codes and standards--plus every calculation you need to do the job.

This proceedings book includes the results from the International Conference on Deep Learning, Artificial Intelligence and Robotics, held in Malaviya National Institute of Technology, Jawahar Lal Nehru Marg, Malaviya Nagar, Jaipur, Rajasthan, 302017. The scope of this conference includes all subareas of AI, with broad coverage of traditional topics like robotics, statistical learning and deep learning techniques. However, the organizing committee expressly encouraged work on the applications of DL and AI in the important fields of computer/electronics/electrical/mechanical/chemical/textile engineering, health care and agriculture, business and social media and other relevant domains. The conference welcomed papers on the following (but not limited to) research topics:

- Deep Learning: Applications of deep learning in various engineering streams, neural information processing systems, training schemes, GPU computation and paradigms, human-computer interaction, genetic algorithm, reinforcement learning, natural language processing, social computing, user customization, embedded computation, automotive design and bioinformatics
- Artificial Intelligence: Automatic control, natural language processing, data mining and machine learning tools, fuzzy logic, heuristic optimization techniques (membrane-based separation, wastewater treatment, process control, etc.) and soft computing
- Robotics: Automation and advanced control-based applications in engineering, neural networks on low powered devices, human-robot interaction and communication, cognitive, developmental and evolutionary robotics, fault diagnosis, virtual reality, space and underwater robotics, simulation and modelling, bio-inspired robotics, cable robots, cognitive robotics, collaborative robotics, collective and social robots and humanoid robots

It was a collaborative platform for academic experts, researchers and corporate professionals for interacting their research in various domain of engineering like robotics, data acquisition, human-computer interaction, genetic algorithm, sentiment analysis as well as usage of AI and advanced computation in various industrial challenges based applications such as user customization, augmented reality, voice assistants, reactor design, product formulation/synthesis, embedded system design, membrane-based separation for protecting environment along with wastewater treatment, rheological properties estimation for Newtonian and non-Newtonian fluids used in micro-processing industries and fault detection.

In-depth Details on Piping Systems Filled with examples drawn from years of design and field experience, this practical guide offers comprehensive information on piping installation, repair, and rehabilitation. All of the latest codes, standards, and specifications are included. Piping Systems Manual is a hands-on design and engineering resource that explains the reasons behind the designs.

You will get full coverage of materials, components, calculations, specifications, safety, and much more. Hundreds of detailed illustrations make it easy to understand the best practices presented in the book. Piping Systems Manual covers: ASME B31 piping codes Specifications and standards Materials of construction Fittings Valves and appurtenances Pipe supports Drafting practice Pressure drop calculations Piping project anatomy Field work and start-up What goes wrong Special services Infrastructure Strategies for remote locations In the era before IoT, the world wide web, internet, web 2.0 and social media made people's lives comfortable by providing web services and enabling access personal data irrespective of their location. Further, to save time and improve efficiency, there is a need for machine to machine communication, automation, smart computing and ubiquitous access to personal devices. This need gave birth to the phenomenon of Internet of Things (IoT) and further to the concept of Internet of Everything (IoE). This book aims to present different aspects of IoE, challenges faced by IoE and its applications, divided into 8 chapters. This multifaceted coverage of the various verticals and IoT layers is the main attraction of this book.

This book constitutes the refereed proceedings of the 20th International Conference on Applications of Natural Language to Information Systems, NLDB 2015, held in Passau, Germany, in June 2015. The 18 full papers, 15 short papers, 14 poster and demonstration papers presented were carefully reviewed and selected from 100 submissions. The papers cover the following topics: information extraction, distributional semantics, querying and question answering systems, context-aware NLP, cognitive and semantic computing, sentiment and opinion analysis, information extraction and social media, NLP and usability, text classification and extraction, and posters and demonstrations.

Written for the piping engineer and designer in the field, this two-part series helps to fill a void in piping literature, since the Rip Weaver books of the '90s were taken out of print at the advent of the Computer Aid Design (CAD) era. Technology may have changed, however the fundamentals of piping rules still apply in the digital representation of process piping systems. The Fundamentals of Piping Design is an introduction to the design of piping systems, various processes and the layout of pipe work connecting the major items of equipment for the new hire, the engineering student and the veteran engineer needing a reference.

Shaped by encrusted layers of development spanning millennia, the southern Italian city of Matera is the ultimate palimpsest. Known as the Sassi, the majority of the ancient city is composed of thousands of structures carved into a limestone cliff and clinging to its walls. The resultant menagerie of forms possesses a surprising visual uniformity and an ineffable allure. Conversely, in the 1950s Matera also served as a crucible for Italian postwar urban and architectural theory, witnessed by the Neorealist, modernist expansion of the city that developed in aversion to the Sassi. In another about-face, the previously disparaged cave city has now been recast as a major tourist destination, UNESCO World Heritage Monument, and test subject for ideas and methods of preservation. Set within a sociopolitical and architectural history of Matera from 1950 to the present, this book analyses the contemporary effects of preservation on the city and surrounding province. More broadly, it examines the relationship between and interdependence of preservation and modernism within architectural thought. To understand inconsistencies inherent to preservation, in particular its effect of catalyzing change, the study lays bare planners' and developers' use of preservation, especially for economic goals and political will. The work asserts that preservation is not a passive, curatorial

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pursuit: it is a cloaked manifestation of modernism and a powerful tool often used to control economies. The study demonstrates that preservation also serves to influence societies through the shaping of memory and circulation of narratives.

WINNER OF THE 2001 KRASZNA-KRAUSZ PHOTOGRAPHY BOOK AWARD (Technical Photography category) The only definitive book to fully encompass the use of photography and imaging as tools in science, technology and medicine. It describes in one single volume the basic theory, techniques, materials, special equipment and applications for a wide variety of uses of photography, including: close up photography and photomacrography to spectral recording, surveillance systems, radiography and micro-imaging. This extensively illustrated photography 'bible' contains all the information you need, whether you are a scientist wishing to use photography for a specialist application, a professional needing to extend technical expertise, or a student wanting to broaden your knowledge of the applications of photography. The contents are arranged in three sections: - General Section, detailing the elements of the image capture process - Major Applications, describing the major applications of imaging - Specialist Applications, presenting an eclectic selection of more specialised but increasingly important applications Each subject is introduced with an outline of its development and contemporary importance, followed by explanations of essential theory and an overview of techniques and equipment. Mathematics is only used where necessary. Numerous applications and case studies are described. Comprehensive bibliographies and references are provided for further study.

Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment. Emphasis is placed on real-world process design and performance of equipment. Provides examples of successful applications, with numerous drawings, graphs, and tables to show the functioning and performance of the equipment. Equipment rating forms and manufacturers' questionnaires are collected to illustrate the data essential to process design. Includes a chapter on equipment cost and addresses economic concerns. \* Practical guide to the selection and design of a wide range of chemical process equipment. Examples of successful, real-world applications are provided. \* Fully revised and updated with valuable shortcut methods, rules of thumb, and equipment rating forms and manufacturers' questionnaires have been collected to demonstrate the design process. Many line drawings, graphs, and tables illustrate performance data. \* Chapter 19 has been expanded to cover new information on membrane separation. Approximately 100 worked examples are included. End of chapter references also are provided.

This book looks at human capital development and provides an explanation for why cognitive development varies among ethnic groups. The book uses an interdisciplinary approach to examine inter-generational ethnic poverty. It puts forth an argument that the ethnic poverty gap can be reduced, and to do so we need a broader view of human capital which considers the match between the nature of the economy and the specific capabilities needed. The book focuses on the interrelationship between developmental psychology and socio-economic status and argues that the most important relationship in a knowledge economy is actually the one between a parent and a child. The book begins by looking at cultures and assimilation and investigates the link between education, culture and socio-economic status. It also attempts to answer the question of what the link between culture, parents and children's ability is and why ethnic groups vary in their nurturing. It delves into how parenting and cognitive development are interrelated. This thought-provoking book concludes with an emphasis on nurture and how it may alleviate ethnic poverty and shape social policies. The book provides a strong thesis to counter explanations based on racial and genetic superiority.

This book constitutes the proceedings of the 22nd International Conference on Theory and Practice of Digital Libraries, TPDL 2018, held in Porto, Portugal, in September 2018. The 51 full papers, 17 short papers, and 13 poster and tutorial papers presented in this volume were

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carefully reviewed and selected from 81 submissions. The general theme of TPDL 2018 was Digital Libraries for Open Knowledge. The papers present a wide range of the following topics: Metadata, Entity Disambiguation, Data Management, Scholarly Communication, Digital Humanities, User Interaction, Resources, Information Extraction, Information Retrieval, Recommendation.

Understanding the biochemistry of food is basic to all other research and development in the fields of food science, technology, and nutrition, and the past decade has seen accelerated progress in these areas. Advances in Food Biochemistry provides a unified exploration of foods from a biochemical perspective. Featuring illustrations to elucidate m

Since the early 2000s, relations between China and Israel have expanded in terms of trade, investment, and educational partnerships. This report examines Israel-China relations and assesses their implications for Israel and the United States.

This book discusses topics related to bioinformatics, statistics, and machine learning, presenting the latest research in various areas of bioinformatics. It also highlights the role of computing and machine learning in knowledge extraction from biological data, and how this knowledge can be applied in fields such as drug design, health supplements, gene therapy, proteomics and agriculture.

Due to the extensive use of treated wood products throughout urban and agricultural communities, information concerning the environmental and health risks associated with treated wood is very much in demand. Responding to increasing need for a comprehensive and cohesive source on this topic, Environmental Impacts of Treated Wood compiles the latest information concerning regulations, environmental impact studies, new wood preservative formulations, and state-of-the-art disposal technologies available for minimizing environmental impacts caused by treated wood. Beginning with a background of the production of the most common treated wood products, this book discusses how chemical leaching and transport of certain wood preservatives affect the environment, particularly chromated copper arsenate. A separate section is devoted to case studies that evaluate possible links with cancer and other health risks with repeated exposure to treated wood. Several chapters discuss ways to measure exposure and review various approaches to risk assessment and management. Because treated wood products last a long time, the book also considers the disposal of treated wood in terms of human and environmental impact. It explores novel disposal technologies and practical strategies for complying with regulatory phase-outs of certain treated wood products within the U.S., Canada, Europe, Australia, and many Asian countries. These include recycling, bioremediation, thermal treatment, and landfills. Environmental Impacts of Treated Wood provides a timely compilation of perspectives necessary for making informed, conscientious decisions in the production, use, and disposal of treated woods that will minimize the environmental impact and human exposure risks associated with treated wood products today.

This pioneering book develops definitions and concepts related to Quality of Experience in the context of multimedia- and telecommunications-related applications, systems and services and applies these to various fields of communication and media technologies. The editors bring together numerous key-protagonists of the new discipline "Quality of Experience" and combine the state-of-the-art knowledge in one single volume.

This book constitutes the refereed conference proceedings of the 14th International Workshop on Data Privacy Management, DPM 2019, and the Third International Workshop on Cryptocurrencies and Blockchain Technology, CBT 2019, held in conjunction with the 24th European Symposium on Research in Computer Security, ESORICS 2019, held in Luxembourg in September 2019. For the CBT Workshop 10 full and 8 short papers were accepted out of 39 submissions. The selected papers are organized in the following topical headings: lightning networks and level 2; smart contracts and applications; and payment

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systems, privacy and mining. The DPM Workshop received 26 submissions from which 8 full and 2 short papers were selected for presentation. The papers focus on privacy preserving data analysis; field/lab studies; and privacy by design and data anonymization. Chapter 2, “Integral Privacy Compliant Statistics Computation,” and Chapter 8, “Graph Perturbation as Noise Graph Addition: a New Perspective for Graph Anonymization,” of this book are available open access under a CC BY 4.0 license at [link.springer.com](http://link.springer.com).

This book constitutes the proceedings of the 16th International Conference on Intelligent Virtual Agents, IVA 2016, held in Los Angeles, CA, USA, in September 2016. The 12 full papers, 18 short papers, and 37 demo and poster papers accepted were carefully reviewed and selected from 81 submissions. IVA 2016 also includes three workshops: Workshop on Chatbots and Conversational Agents (WOCHAT), Can you feel me now? Creating Physiologically Aware Virtual Agents (PAVA), and Graphical and Robotic Embodied Agents for Therapeutic Systems, GREATS16. Intelligent Virtual Aspects (IVAs) are intelligent digital interactive characters that can communicate with humans and other agents using natural human modalities such as facial expressions, speech, gestures, and movement. They are capable of real-time perception, cognition, emotion and action that allow them to participate in dynamic social environments. Constructing and studying IVAs requires tools from a wide range of fields such as computer science, psychology, cognitive science, communication, linguistics, interactive media, human-computer interaction and artificial intelligence.

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