

### En 868 5 And Astm F88

Comprehensively covers the key technologies for the development of tactile perception in minimally invasive surgery Covering the timely topic of tactile sensing and display in minimally invasive and robotic surgery, this book comprehensively explores new techniques which could dramatically reduce the need for invasive procedures. The tools currently used in minimally invasive surgery (MIS) lack any sort of tactile sensing, significantly reducing the performance of these types of procedures. This book systematically explains the various technologies which the most prominent researchers have proposed to overcome the problem. Furthermore, the authors put forward their own findings, which have been published in recent patents and patent applications. These solutions offer original and creative means of surmounting the current drawbacks of MIS and robotic surgery. Key features:- Comprehensively covers topics of this ground-breaking technology including tactile sensing, force sensing, tactile display, PVDF fundamentals Describes the mechanisms, methods and sensors that measure and display kinaesthetic and tactile data between a surgical tool and tissue Written by authors at the cutting-edge of research into the area of tactile perception in minimally invasive surgery Provides key topic for academic

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researchers, graduate students as well as professionals working in the area. The Handbook of Polymer Testing: Physical Methods provides virtually currently used techniques for measuring and testing the physical properties of polymers. A concise but detailed technical guide to the physical testing methods of synthetic polymers in plastics, rubbers, cellular materials, textiles, coated fabrics, and composites, the book analyses a wide array of physical parameters and features complete coverage of mechanical, optical, and electrical, and thermal properties. Topics of interest include sample preparation, time-dependent properties, coated fabrics, weathering, permeability, and nondestructive testing.

Up-to-date, comprehensive coverage on radiation-processed polymer materials and their applications. Offering a unique perspective of the industrial and commercial applications of the radiation processing of polymers, this insightful reference examines the fundamental scientific principles and cutting-edge developments advancing this diverse field. Through a variety of case studies, detailed examples, and economic feasibility analysis, Radiation Processing of Polymer Materials and Its Industrial Applications systematically explains the commercially viable ways to process and use radiation-processed polymeric materials in industrial products. In addition, this one-of-kind text: Covers important chemistry and processing fundamentals, while emphasizing their

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translation into practical applications of radiation-processed polymers  
Incorporates new applications in nanotechnology, biomaterials, and recycling  
Systematically discusses new developments in the field and summarizes past achievements  
By helping readers—from students to scientists, engineers, technicians, and sales and marketing professionals—understand and solve problems associated with radiation processing of polymers, *Radiation Processing of Polymer Materials and Its Industrial Applications* serves as an essential reference and fills an important gap in the literature.

*Chemical Resistance of Thermoplastics* is a unique reference work, providing a comprehensive cross-referenced compilation of chemical resistance data that explains the effect of thousands of exposure media on the properties and characteristics of commodity thermoplastics. The two volumes cover thermoplastics grouped within the following parts: - Acrylic Polymers and Copolymers - Acrylonitrile Polymers - Cellulosics Polymers - Ionomers - Olefinic Polymers - Polyacetals - Polyacetals - Polyamides - Polycarbonates - Polyesters - Polyurethanes - Polycarbonates - Styrene Copolymers - Styrene Copolymers - Vinyl Chloride Polymers - Vinyl Polymers  
The single most comprehensive data source covering the chemical resistance properties of high consumption volume commercial thermoplastics  
A rating number is provided for each test, summarizing the effect of the exposure medium on the given thermoplastic  
The data covered in the two volumes is also provided as an online publication offering extended navigation and search features

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Scientific and Commercial Information for More Than 1,000 Polymers Polymers: A Property Database, Second Edition offers a central and reliable source for scientific and commercial information on more than 1,000 polymers. Revised and updated throughout, this edition features 25% new material, including 50 entirely new entries that reflect advances in areas such as conducting polymers, hydrogels, nano-polymers, and biomaterials. The second edition also comes with unlimited access to a complete, fully searchable Web version of the reference. Powerful retrieval software allows users to customize their searches and refine results. Each entry includes trade names, properties, manufacturing processes, commercial applications, supplier details, references, and links to constituent monomers. Buy the latest print edition and gain access to a complete, fully searchable Web version of the reference, enhanced with powerful retrieval software that allows you to customize searches and refine results. Unlimited access to the Online Version for the lifetime of the Second Edition Revised, Updated, and Expanded with 25% New Material Includes 50 entirely new entries reflecting the latest polymer advances Special Introductory Price! Buy today and SAVE! Purchase the NEW Edition in Print AND Online –For One Price!

The fifth edition of the Kirk-Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions, which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernisation of the content to reflect changes and developments in chemical technology. Presenting a wide scope of articles on chemical substances, properties, manufacturing, and uses; on industrial processes, unit operations in chemical engineering; and on fundamentals

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and scientific subjects related to the field. The Encyclopedia describes established technology along with cutting edge topics of interest in the wide field of chemical technology, whilst uniquely providing the necessary perspective and insight into pertinent aspects, rather than merely presenting information. Set began publication in January 2004 Over 1000 articles More than 600 new or updated articles 27 volumes Reviews from the previous edition: "The most indispensable reference in the English language on all aspects of chemical technology...the best reference of its kind". —Chemical Engineering News, 1992 "Overall, ECT is well written and cleanly edited, and no library claiming to be a useful resource for chemical engineering professionals should be without it." —Nicholas Basta, Chemical Engineering, December 1992 More than 30,000 listings are presented in this edition with increased coverage from major steel producing countries such as China, India, and Japan.

Assurance of Sterility for Sensitive Combination Products and Materials: New Paradigms for the Next Generation of Medical Devices and Pharmaceuticals discusses the medical device industry and existing challenges regarding the exciting new world of sensitive combination products (SCPs) and their terminal sterilization. This book reassesses the current assumptions to assure the patient's best interests are met in the development of increasingly rigorous sterilization methods used to counteract MRSA and other 'super-bugs'. In addition, the book discusses the special challenges faced with implantable medical devices, sterilization requirements and further methods needed for

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material selection and the design process. This book is unique in taking a holistic, end-to-end approach to sterilization, with a particular focus on materials selection and product design. Introduces sterilization principles at the material selection and design stages Addresses the industry need for new sterilization processes for new medical devices and biomaterials Provides guidance to select the appropriate sterilization technique for newly developed sensitive combination products Examines forward thinking tactics for matching new developments in material compatibility with possible regulatory and QSR strategies Assurance of Sterility for Sensitive Combination Products and Materials New Paradigms for the Next Generation of Medical Devices and Pharmaceuticals Academic Press

Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

Sterilisation has always been challenging but sterilisation of healthcare products and polymers, especially together is an even greater challenge - how do you sterilise without adversely affecting the end use or the end user? This book discusses all the sterilisation methods used for polymeric healthcare products both traditional and new.

This book describes efficient and safe repair operations for pipelines, and develops new methods for the detection and repair of volumetric surface defects in transmission pipelines. It also addresses the physics, mechanics, and applications of advanced materials used for

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composite repair of corroded pipelines. Presenting results obtained in the European Commission's INNOPIPES FRAMEWORK 7 programme, it develops long-range ultrasonic and phased array technologies for pipeline diagnostics, and explores their interactions with discontinuities and directional properties of ultrasonic antenna array. The book subsequently shares the results of non-destructive testing for different types of materials applications and advanced composite repair systems, and characterizes the mechanical properties by means of fracture methods and non-destructive techniques. In turn, the book assesses the currently available technologies for reinforcement of pipelines, drawing on the experience gained by project partners, and evaluates the recovery of the carrying capacity of pipeline sections with local corrosion damage by means of analytical and numerical procedures. It develops an optimization method based on the planning of experiments and surface techniques for advanced composite repair systems, before validating the numerical models developed and experimentally gauging the effectiveness of composite repair with the help of full-scale hydraulic tests.

This book introduces innovative and interdisciplinary applications of advanced technologies. Featuring the papers from the 10th DAYS OF BHAAAS (Bosnian-Herzegovinian American Academy of Arts and Sciences) held in Jahorina, Bosnia and Herzegovina on June 21–24, 2018, it discusses a wide variety of engineering and scientific applications of the different techniques. Researchers from academic and industry present their work and ideas, techniques and applications in the field of power systems, mechanical engineering, computer

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modelling and simulations, civil engineering, robotics and biomedical engineering, information and communication technologies, computer science and applied mathematics.

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