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Houben-Weyl is the acclaimed reference series for preparative methods in organic chemistry, in which all methods are organized according to the class of compound or functional group to be synthesized. The Houben-Weyl volumes contain 146 000 product-specific experimental procedures, 580 000 structures, and 700 000 references. The preparative significance of the methods for all classes of compounds is critically evaluated. The series includes data from as far back as the early 1800s to 2003. // The content of this e-book was originally published in 1988. Fischer-Tropsch Technology is a unique book for its state-of-the-art approach to Fischer Tropsch (FT) technology. This book provides an explanation of the basic principles and terminology that are required to understand the application of FT technology. It also contains comprehensive references to patents and previous publications. As the first publication to focus on theory and application, it is a contemporary reference source for students studying chemistry and chemical engineering. Researchers and engineers active in the development of FT technology will also find this book an invaluable source of information. * Is the first publication to cover the theory and application for modern Fischer Tropsch technology * Contains comprehensive knowledge on all aspects relevant to the application of Fischer Tropsch technology * No other publication looks at past, present and future applications This book discusses the most commonly used techniques for characterizing magnetic material properties and their applications. It provides a comprehensive and easily digestible collection and review of magnetic measurement techniques. It also examines the underlying operating principles and techniques of magnetic measurements, and presents current examples where such

measurements and properties are relevant. Given the pervasive nature of magnetic materials in everyday life, this book is a vital resource for both professionals and students wishing to deepen their understanding of the subject. *Modern Sample Preparation for Chromatography, Second Edition* explains the principles of sample preparation for chromatographic analysis. A variety of procedures are applied to make real-world samples amenable for chromatographic analysis and to improve results. This book's authors discuss each procedure's advantages, disadvantages and their applicability to different types of samples, along with their fit for different types of chromatographic analysis. The book contains numerous literature references and examples of sample preparation for different matrices and new sections on green approaches in sample preparation, progress in automation of sample preparation, non-conventional solvents for LLE (ionic liquids, deep eutectic mixtures, and others), and more. Presents numerous techniques applied for sample preparation for chromatographic analysis Provides an up-to-date source of information regarding the progress made in sample preparation for chromatography Describes examples for specific types of matrices, providing a guide for choosing the appropriate sample preparation method for a given analysis Novel Approaches of Nanotechnology in Food, a volume in the Nanotechnology in the Agri-Food Industry series, represents a summary of the most recent advances made in the field of nanostructured materials that have significant impact on the agri-food industry. Because the current food market needs innovation, nanotechnology coupled with novel interdisciplinary approaches and processing methods has enabled important advances that have the potential to revolutionize agri-food sector. Nanotechnology can serve to resolve challenges faced by the food and bioprocessing industries for developing and implementing systems that can produce qualitative and quantitative foods that are safe, sustainable, and ecofriendly. This book is a valuable resource for scientists, researchers, and engineers in food science and biotechnology fields, as well as students who want information on cutting-edge technologies. Provides worldwide research applications of nanomaterials and nanotechnology useful in food research Presents analytical methods for enzyme immobilization onto magnetic nanoparticles Includes strategies of behavior and structure function to increase application enhancement and control Discusses nanomaterial regulations and for consumer protection awareness Nanomaterials in Chromatography: Current Trends in Chromatographic Research Technology and Techniques provides recent advancements in the wide variety of chromatographic techniques applied to nanotechnology. As nanomaterials' unique properties can improve detection sensitivity and miniaturize the devices used in analytical procedures, they can substantially affect the evaluation and analysis ability of scientists and researchers and foster exciting developments in separation science. The book includes chapters on such crucial topics as the use of nanomaterials in sample preparation and the legalization of nanomaterials, along with a section on reducing the cost of the analysis process, both in terms of chemicals and time consumption. Presents several techniques for nanomaterials in chromatography, including well-known materials like carbon nanomaterials and functionalized nanomaterials Includes suggested readings at the end of each chapter for those who need further information or specific details, from standard handbooks, to journal articles Covers not only applications of nanomaterials in chromatography, but also their environmental impact in terms of toxicity and economic effects Covering the whole range of molecular biology techniques - genetic engineering as well as cytogenetics of plants -, each chapter begins with an introduction to the basic approach. followed by detailed methods with easy-to-follow protocols and comprehensive troubleshooting. The first part introduces basic molecular methodology such as DNA extraction, blotting, production of libraries and RNA cloning, while the second part describes analytical approaches, in particular RAPD and RFLP. The manual concludes with a variety of gene transfer techniques and both molecular and cytological analysis. As such, this will be of great use to both the first-timer and the experienced scientist. *Advanced Mass Spectrometry for Food Safety and Quality* provides information on recent advancements made in mass spectrometry-based techniques and their applications in food safety and quality, also covering the major challenges associated with implementing these technologies for more effective identification of unknown compounds, food profiling, or candidate biomarker discovery. Recent advances in mass spectrometry technologies have uncovered tremendous opportunities for a range of food-related applications. However, the distinctive characteristics of food, such as the wide range of the different components and their extreme complexity present enormous challenges. This text brings together the most recent data on the topic, providing an important resource towards greater food safety and quality. Presents critical applications for a sustainable, affordable and safe food supply Covers emerging problems in food safety and quality with many specific examples. Encompasses the characteristics, advantages, and limitations of mass spectrometry, and the current strategies in method development and validation Provides the most recent data on the important topic of food safety and quality This thorough volume explores the possibility of detecting and identifying toxigenic fungi, able to produce secondary metabolites known as mycotoxins, which cause severe health problems in humans and animals after exposure to contaminated food and feed, having a broad range of toxic effects, including carcinogenicity, neurotoxicity, and reproductive and developmental toxicity. Beginning with a section on fungal genera and species of major significance along with their associated mycotoxins, the book continues with sections on Polymerase Chain Reaction (PCR)-based methods for the detection and identification of mycotoxigenic fungi, PCR-based methods for multiplex detection of mycotoxigenic fungi, as well as sections on combined approaches and new methodologies. Written for the highly successful *Methods in Molecular Biology* series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Mycotoxigenic Fungi: Methods and Protocols* will aid researchers working in this vital field to provide insight into possible actions to reduce mycotoxin contamination of crop plants and the food/feed byproducts. This publication provides an update on the current status of gene maps in different livestock and pet/companion animal species. The findings summarized in species specific commentaries and original articles testify the rapid advances made in the field of animal genomics. Of significant interest is the fact that current investigations are providing headways for two important and exciting research fronts: targeted high-resolution mapping leading to the application of genomic information in addressing questions of economic and biological significance in animals, and the initiation of whole genome sequencing projects for some of the animal species. Like in humans and mice, this will set the stage for a new level of research and real time complex analysis of the genomes of these species. *Animal Genomics* signifies the beginning of a new era in this field and celebrates the achievements of the past 20 years of genomics research. It will be of special interest to researchers involved in genome analysis - both gross chromosomal as well as molecular - in various animal species, and to comparative and evolutionary geneticists. Learn to build software and hardware projects featuring the Raspberry Pi! Congratulations on becoming a proud owner of a Raspberry Pi! Following primers on getting your Pi up and running and programming with Python, the authors walk you through 16 fun projects of increasing sophistication that let you develop your Raspberry Pi skills. Among other things you will: Write simple

programs, including a tic-tac-toe game Re-create vintage games similar to Pong and Pac-Man Construct a networked alarm system with door sensors and webcams Build Pi-controlled gadgets including a slot car racetrack and a door lock Create a reaction timer and an electronic harmonograph Construct a Facebook-enabled Etch A Sketch-type gadget and a Twittering toy Raspberry Pi Projects is an excellent way to dig deeper into the capabilities of the Pi and to have great fun while doing it. How can we use our carbon-based resources in the most responsible manner? How can we most efficiently transform natural gas, coal, or biomass into diesel, jet fuel or gasoline to drive our machines? The Big Questions today are energy-related, and the Fischer-Tropsch process provides industrially tested solutions. This book offers a comprehensive and up-to-date overview of the Fischer-Tropsch process, from the basic science and engineering to commercial issues. It covers industrial, economic, environmental, and fundamental aspects, with a specific focus on 'green' concepts such as sustainability, process improvement, waste-reduction, and environmental care. The result is a practical reference for researchers, engineers, and financial analysts working in the energy sector, who are interested in carbon conversion, fuel processing or synthetic fuel technologies. It is also an ideal introductory book on the Fischer-Tropsch process for graduate courses in chemistry and chemical engineering. In the nanotechnology era much of the enhanced speed and effectiveness of equipments, techniques or material is due to their downsizing to nanometric scale. One such enhancement has been occurring in the field of nanoencapsulation. Nanoencapsulation of bioactive materials is a multidisciplinary approach to improve the efficiency and decrease the side effects of drugs, vaccines, cosmetics, slimming agents and nutraceuticals. Nanoliposomes are among the best encapsulation and controlled release systems with the ability to incorporate and protect various types of bioactives as well as deliver them to the target site inside the human or animal body. This book is an ideal source for learning about, or teaching lipid-based carrier systems, including nanoliposomes, archaeosomes, immunoliposomes, virosomes, ultradeformable vesicles and stealth liposomes from basics to post-graduate levels. Several methods of preparation and characterization of these carriers along with their in vitro and in vivo behavior are explained. Application of the nanocarriers in various areas including pharmaceuticals, biotechnology, gene delivery and therapy, food technology and origin of life are covered. Particular emphasis is given to the manufacture of carrier systems without employing potentially harmful substances (e.g. volatile solvents or detergents) on small and large scale. The book also contains a unique technical glossary which is especially useful for those new to the field. Nanotechnology, the engineering and art of manipulating matter at the nanoscale (1-100 nm), offers the potential of novel nanomaterials for the treatment of surface water, groundwater, and wastewater contaminated by toxic metal ions, organic and inorganic solutes, and microorganisms. At the present time, many nanomaterials are under active research and development. This timely volume reviews the current state-of-the-art research and development of different nanomaterials (nanostructured catalytic membranes, nanosorbents, nanocatalysts, and bioactive nanoparticles) and their application in water treatment, purification, and disinfection. The expert authors have contributed chapters focusing on the cutting-edge research in this emerging technology and its applications in microbiology and water treatment. The topics covered include the detection of microbial pathogens, nanofibers, and nanobiocides in water purification; nanozymes for biofilm removal; water and wastewater treatment; and reverse osmosis. Also included is a chapter dedicated to the health and environmental concerns for the use of nanotechnology in water treatment. This book is for all who are interested in nanobiotechnology, bioremediation, biodiagnostics, molecular diagnostics, and environmental microbiology and it is a recommended text for all microbiology laboratories. This book presents the synthesis, processing and application of selected functional biopolymers as new advanced materials. It reviews theoretical advances as well as experimental results, opening new avenues for researchers in the field of polymers and sustainable materials. The book covers various aspects, including the structural analysis of functional biopolymers based materials; functional biopolymer blends; films, fibers, foams, composites and different advanced applications. A special emphasis is on cellulose-based functional polymers, but other types of functional biopolymers (e.g. from chitosan, starch, or plant oils) are also described. This book begins with a phenomenological treatment of magnetism, introducing magnetic effects at the atomic, mesoscopic and macroscopic levels. This is followed by a section on atomic aspects of magnetism, and finally a presentation of magneto-caloric, magneto-elastic, magneto-optical and magneto-transport coupling effects. Handbook of Nanomaterials for Manufacturing Applications covers the challenges and obstacles involved in using nanomaterials in manufacturing. In particular, the lack of information, the possibility of adverse impacts on the environment, human health, safety and sustainability and other remaining challenges. This book addresses these challenges for the use of nanomaterials in major manufacturing sectors and suggests how they may be overcome. It was written to summarize, in a one-stop, concise manner, how nanomaterials and nanotechnology are being used to enhance current manufacturing techniques and processes in order to create more sustainable products in a range of industry sectors. This book will be of great use to materials scientists and engineers who are looking to gain a greater understanding on how nanotechnology is being used to improve the products we use in our daily lives. Demonstrates how cutting-edge developments in nanomaterials are being used to make more efficient manufacturing processes in a range of industry sectors Explores how using nanomaterials can help engineers create innovative consumer products Discusses the legal, economic and toxicity issues arising from using nanomaterials in manufacturing processes Written by authors with an international reputation, acknowledged expertise and teaching experience, this is the most up-to-date resource on the field. The text is clearly structured throughout so as to be readily accessible, and begins by looking at scattering of a scalar particle by one-dimensional systems. The second section deals with the scattering of neutrons with spin in one-dimensional potentials, while the third treats dynamical diffraction in three-dimensional periodic media. The final two sections conclude with incoherent and small angle scattering, and some problems of quantum mechanics. With its treatment of the theories, experiments and applications involved in neutron optics, this relevant reading for nuclear physicists and materials scientists alike. Recent developments clearly indicate that speciation studies in biological and environmental matrices are much more important than the total element determination due to the tremendous difference in bioavailability and toxicity of various chemical forms of a particular element. Different separation-detection techniques and hyphenated systems—each with its own advantages and disadvantages with respect to precision, sensitivity and detection limit—have been developed for the identification and quantification of the species present in systems at ultra-trace levels. This book aims to evaluate the speciation analysis in depth and present a comprehensive review of state-of-the-art analytical approaches used for the speciation of elements in environmental samples. Direct Alcohol Fuel Cells: Materials, Performance, Durability and Applications begins with an introductory overview of direct alcohol fuel cells (DAFC); it focuses on the main goals and challenges in the areas of materials development, performance, and commercialization. The preparation and the properties of the anodic catalysts used for the oxidation of methanol, higher alcohols, and alcohol tolerant cathodes are then described.

The membranes used as proton conductors in DAFC are examined, as well as alkaline membranes, focusing on the electrical conductivity and alcohol permeability. The use of different kinds of carbon materials as catalyst supports, gas diffusion layers, and current collectors in DAFC is also discussed. State of the art of the modeling is used to estimate performance and durability. The closing chapter reviews the use of DAFC in portable equipment and mobile devices and features a detailed discussion on the mechanisms of component degradation which limits their durability. This book is written to facilitate the understanding of DAFC technology, applications, and future challenges. It is an excellent introduction for electrochemical and material engineers interested in small fuel cells as portable energy sources, scientists focused on materials science for energy production and storage, as well as policy-makers in the area of renewable energies. There's an incredible similarity between the mechanics of a fly cast and the swing of a golf club. Perhaps that's why Chris Santella, author of *Fifty Places to Fly Fish Before You Die*, can be found on the links when he's not on the stream. With *Fifty Places to Play Golf Before You Die*, Santella gives voice to his other sporting passion, interviewing 50 people intimately connected to the sport about some of their favorite courses around the world. For both passionate golfers and armchair travelers, this gorgeous full-color book presents the world's greatest golf venues, the personal favorites of renowned players, course architects, and other experts in the sport. From Ballyliffin, Ireland's northernmost course, whose rumped fairways wander along the North Sea in the shadows of Glashedy Rock, to New Zealand's Cape Kidnappers, perched atop dramatic cliffs some 500 feet above the ocean, the book's beautiful photographs capture the architecture, noteworthy holes, location, and ambiance that make these courses standouts for ardent golfers. A brief history of each course, an experiential account—filled with local color—from the person recommending the venue, and trip-planning advice provide adventurous readers with all the information they need to chip and putt their way around the globe. A close-up look at golf's top courses around the world, recommended by such experts as Nick Faldo and Christie Kerr (pro golfers), Pete Dye and Tom Doak (course architects), Brian McCallen (editor and author), and Donald Trump. With breathtaking color photographs of each site, this is a great gift for avid golfers and armchair travelers alike. This Companion examines the complete works of Seneca in context and establishes the importance of his legacy in Western thought.

Handbook of Advanced Chromatography / Mass Spectrometry Techniques is a compendium of new and advanced analytical techniques that have been developed in recent years for analysis of all types of molecules in a variety of complex matrices, from foods to fuel to pharmaceuticals and more. Focusing on areas that are becoming widely used or growing rapidly, this is a comprehensive volume that describes both theoretical and practical aspects of advanced methods for analysis. Written by authors who have published the foundational works in the field, the chapters have an emphasis on lipids, but reach a broader audience by including advanced analytical techniques applied to a variety of fields. **Handbook of Advanced Chromatography / Mass Spectrometry Techniques** is the ideal reference for those just entering the analytical fields covered, but also for those experienced analysts who want a combination of an overview of the techniques plus specific and pragmatic details not often covered in journal reports. The authors provide, in one source, a synthesis of knowledge that is scattered across a multitude of literature articles. The combination of pragmatic hints and tips with theoretical concepts and demonstrated applications provides both breadth and depth to produce a valuable and enduring reference manual. It is well suited for advanced analytical instrumentation students as well as for analysts seeking additional knowledge or a deeper understanding of familiar techniques. Includes UHPLC, HILIC, nano-liquid chromatographic separations, two-dimensional LC-MS (LCxLC), multiple parallel MS, 2D-GC (GCxGC) methodologies for lipids analysis, and more. Contains both practical and theoretical knowledge, providing core understanding for implementing modern chromatographic and mass spectrometric techniques. Presents chapters on the most popular and fastest-growing new techniques being implemented in diverse areas of research.

NEW YORK TIMES BESTSELLER • 80 recipes inspired by the magical world of Dungeons & Dragons “Ready a tall tankard of mead and brace yourself for a culinary journey to match any quest!”—Tom Morello, *Rage Against the Machine* From the D&D experts behind *Dungeons & Dragons Art & Arcana* comes a cookbook that invites fantasy lovers to celebrate the unique culinary creations and traditions of their favorite fictional cultures. With this book, you can prepare dishes delicate enough to dine like elves and their drow cousins or hearty enough to feast like a dwarven clan or an orcish horde. All eighty dishes—developed by a professional chef—are delicious, easy to prepare, and composed of wholesome ingredients readily found in our world. *Heroes' Feast* includes recipes for snacking, such as Elven Bread, Iron Rations, savory Hand Pies, and Orc Bacon, as well as hearty vegetarian, meaty, and fish mains, such as Amphail Braised Beef, Hommlet Golden Brown Roasted Turkey, Drow Mushroom Steaks, and Pan-Fried Knucklehead Trout—all which pair perfectly with a side of Otik's famous fried spiced potatoes. There are also featured desserts and cocktails—such as Heartlands Rose Apple and Blackberry Pie, Trolltide Candied Apples, Evermead, Potion of Restoration, and Goodberry Blend—and everything in between, to satisfy a craving for any adventure.

Statistical Design-Chemometrics is applicable to researchers and professionals who wish to perform experiments in chemometrics and carry out analysis of the data in the most efficient way possible. The language is clear, direct and oriented towards real applications. The book provides 106 exercises with answers to accompany the study of theoretical principles. Forty two cases studies with real data are presented showing designs and the complete statistical analyses for problems in the areas chromatography, electroanalytical and electrochemistry, calibration, polymers, gas adsorption, semiconductors, food technology, biotechnology, photochemistry, catalysis, detergents and ceramics. These studies serve as a guide that the reader can use to perform correct data analyses. -Provides 42 case studies containing step-by-step descriptions of calculational procedures that can be applied to most real optimization problems -Contains 106 theoretical exercises to test individual learning and to provide classroom exercises and material for written tests and exams -Written in a language that facilitates learning for physical and biological scientists and engineers -Takes a practical approach for those involved in industrial optimization problems

How could nanotechnology not perk the interest of any designer, engineer or architect? Exploring the intriguing new approaches to design that nanotechnologies offer, *Nanomaterials, Nanotechnologies and Design* is set against the sometimes fantastic sounding potential of this technology. Nanotechnology offers product engineers, designers, architects and consumers a vastly enhanced palette of materials and properties, ranging from the profound to the superficial. It is for engineering and design students and professionals who need to understand enough about the subject to apply it with real meaning to their own work. * World-renowned author team address the hot-topic of nanotechnology * The first book to address and explore the impacts and opportunities of nanotech for mainstream designers, engineers and architects * Full colour production and excellent design: guaranteed to appeal to everyone concerned with good design and the use of new materials

This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities. Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts,

this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes. The first part of the book discusses the history and chemistry of zeolites, while the second section focuses on separation processes. The third and final section treats zeolites in the field of catalysis. The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent, a membrane and as a catalyst, while also discussing their impact within the industry. This volume details practical procedures on the latest DNA vaccine technology. Chapters guide readers through methods and protocols on DNA vaccine design, the adjuvant influence, production and purification methodologies, delivery systems, and approaches of the influence of DNA vaccines in the immunological response performance and in the cancer immunotherapy. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, DNA Vaccines: Methods and Protocols aims to ensure successful results in the further study of this vital field. A comprehensive guide to smart materials and how they are used in sample preparation, analytical processes, and applications This comprehensive, two-volume handbook provides detailed information on the present state of new materials tailored for selective sample preparation and the legal frame and environmental side effects of the use of smart materials for sample preparation in analytical chemistry, as well as their use in the analytical processes and applications. It covers both methodological and applied analytical aspects, relating to the development and application of new materials for solid-phase extraction (SPE) and solid-phase microextraction (SPME), their use in the different steps and techniques of the analytical process, and their application in specific fields such as water, food, air, pharmaceuticals, clinical sciences and forensics. Every chapter in Handbook of Smart Materials in Analytical Chemistry is written by experts in the field to provide a comprehensive picture of the present state of this key area of analytical sciences and to summarize current applications and research literature in a critical way. Volume 1 covers New Materials for Sample Preparation and Analysis. Volume 2 handles Analytical Processes and Applications. Focuses on the development and applications of smart materials in analytical chemistry Covers both, methodological and applied analytical aspects, for the development of new materials and their use in the different steps and techniques of the analytical process and their application in specific fields Features applications in key areas including water, air, environment, pharma, food, forensic, and clinical Presents the available tools for the use of new materials suitable to aid recognition process to the sample preparation and analysis A key resource for analytical chemists, applied laboratories, and instrument companies Handbook of Smart Materials in Analytical Chemistry, 2V Set is an excellent reference book for specialists and advanced students in the areas of analytical chemistry, including both research and application environments. An international and interdisciplinary team of leading experts from both academia and industry report on the wide range of hot applications for MOFs, discussing both the advantages and limits of the material. The resulting overview covers everything from catalysis, H₂ and CH₄ storage and gas purification to drug delivery and sensors. From the Contents: - Design of Porous Coordination Polymers/Metal-Organic Frameworks: Past, Present and Future - Design of Functional Metal-Organic Frameworks by Post-Synthetic Modification - Thermodynamic Methods for Prediction of Gas Separation in Flexible Frameworks - Separation and purification of gases by MOFs - Opportunities for MOFs in CO₂ capture from flue gases, natural gas and syngas by adsorption - Manufacture of MOF thin films on structured supports for separation and catalysis - Research status of Metal-Organic Frameworks for on-board cryo-adsorptive hydrogen storage applications - Separation of xylene isomers - Metal-Organic Frameworks as Catalysts for Organic Reactions - Biomedical applications of Metal Organic Frameworks - Metal Organic Frameworks for Biomedical Imaging - Luminescent Metal-Organic Frameworks - Deposition of thin films for sensor applications - Industrial MOF Synthesis - MOF shaping and immobilisation A must-have for every scientist in the field. The issue of food authenticity is not new. For centuries unscrupulous farmers and traders have attempted to 'extend', or otherwise alter, their products to maximise revenues. In recent years the subject has reached new prominence and there even have been situations where food authenticity has featured as a newspaper headline in various countries. Food legislation covering the definition, and in some cases composition, of various commodities has been in place in developed countries for many years and paradoxically it is the legislative trend away from emphasis on composition and more on accurate and truthfullabeliing that has been one driving force for the authenticity issue. Another, and many would speculate as the more potent, driving force is the move towards fewer and larger supermarket chains in many countries. Such trading companies with their images of quality products, buying power and commercial standing, exercise considerable commercial power which has been claimed as a significant source of financial pressure on food prices and food commodity product quality. For whatever reason, recent food authenticity issues have become news and consumers, the media and enforcement authorities are showing more interest than ever before in the subject. This book brings together recent developments in the areas of MEMS tribology, novel lubricants and coatings for nanotechnological applications, biomimetics in tribology and fundamentals of micro/nano-tribology. Tribology plays important roles in the functioning and durability of machines at small length scales because of the problems associated with strong surface adhesion, friction, wear etc. Recently, a number of studies have been conducted to understand tribological phenomena at nano/micro scales and many new tribological solutions for MEMS have been proposed.

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