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**Fibres, Films, Plastics and Rubbers A Handbook of Common Polymers** Elsevier *Fibres, Films, Plastics and Rubbers: A Handbook of Common Polymers focuses on polymeric materials. The book first discusses a list of sections on individual polymers. Topics include olefin and vinyl-type, carbohydrate-type, synthetic condensation-type, organo-silicon, and inorganic polymers, as well as proteins. The text also looks at list of sections on specific properties and related information. The book then discusses polyethylenes, polypropylene, and polytetrafluoroethylene. The text also examines polystyrene. Concerns include the structure, chemistry, physics, fabrication, serviceability, and utilization of these materials. The text also focuses on indene and coumarone/indene resins; polyvinyl acetate and alcohol; polyvinyl formal, acetal, and butyral; and polyacrylates and polymethacrylates. The book then examines the structure, chemistry, physics, fabrication, serviceability, and utilization of polyvinyl chloride, polyvinylidene chloride, cellulose, and cellulose acetate. The book also discusses the structure, chemistry, physics, fabrication, serviceability, and utilization of cellulose nitrate, cellulose ethers, starch, and regenerated proteins. Same type of evaluation is also done to polyamides, epoxy resins, polyformaldehyde, natural rubber, and nitrile rubbers. The text is a valuable source of information for readers interested in polymeric materials.* **Fibres, Plastics, and Rubbers A Handbook of Common Polymers HANDBOOK OF COMMON POLYMERS FIBERS FILMS PLASTICS AND RUBBERS. Fibres, Films, Plastics and Rubbers A Handbook of Common Polymers Fibres, Films, Plastics and Rubbers: a Handbook of Common Polymers; Compiled by W. J. Roff and J. R. Scott, With the Assistance of J. Pacitti Wellington Sears Handbook of Industrial Textiles** CRC Press *The Wellington Sears Handbook of Industrial Textiles has been a widely used textile industry reference for more than 50 years. Now a completely updated new edition has been published. It was prepared by a team of industrial textile specialists at Auburn University to provide both technical and management personnel with a comprehensive resource on the current technology and applications of today's industrial textiles. All aspects of industrial textiles are covered: man-made and natural materials, manufacturing and finishing methods, and all applications. There are also sections on properties, testing, waste management, computers and automation, and standards and regulations. The appendices provide extensive reference data: properties, specifications, manufacturers and trade names, mathematical equations and measurement units. The text is organized for easy reference, and well illustrated with hundreds of schematics and photographs.* **Handbook of Polymer Synthesis, Characterization, and Processing** John Wiley & Sons *Covering a broad range of polymer science topics, Handbook of Polymer Synthesis, Characterization, and Processing provides polymer industry professionals and researchers in polymer science and technology with a single, comprehensive handbook summarizing all aspects involved in the polymer production chain. The handbook focuses on industrially important polymers, analytical techniques, and formulation methods, with chapters covering step-growth, radical, and co-polymerization, crosslinking and grafting, reaction engineering, advanced technology applications, including conjugated, dendritic, and nanomaterial polymers and emulsions, and characterization methods, including spectroscopy, light scattering, and microscopy.* **Handbook of Occupational Dermatology** Springer Science & Business Media *A highly practical approach to occupational dermatoses combined with the skill and experience of specialists in clinical and experimental dermatology. Great care is taken throughout to provide the information urgently needed for daily patient management, with concise tables, algorithms, and figures on how to optimise the diagnostic procedure for high-quality patient care and expert opinion. This handbook provides the relevant job descriptions, job-specific diagnostic algorithms and a detailed description of allergens and irritants such that readers can master even difficult and unusual problems in occupational dermatology.* **Handbook of Polymer Science and Technology** CRC Press *This handbook focuses on physical, structural, and compositional properties of elastomeric materials and plastics. It provides a broad overview of the physical and physicochemical properties of synthetic rubbers that are used in conventional cured applications.* **Handbook of Pressure-Sensitive Adhesives and Products - Three Volume Set** CRC Press *Divided into three sections that are also available as individual volumes, this is the first reference to offer a complete guide to the fundamentals, manufacturing, and applications of pressure-sensitive adhesives and products. An indispensable source of state-of-the-art information, this handbook covers the design for pressure-sensitive adhesives and products, the manufacture technology and equipment for such products, including their testing and application, and the theory and practice that correlate with the main domains of product development. Topically organized, it presents a comprehensive list of terms and definitions and offers a cross-disciplinary look at pressure-sensitive adhesives, spanning such areas as physics, surface chemistry, electronic materials, automotive engineering, packaging, and the biomedical, tape, and label industries. For more complete information on each volume visit [www.crcpress.com](http://www.crcpress.com) or go directly to the webpage: Volume 1: Fundamentals of Pressure Sensitivity Volume 2: Technology of Pressure-Sensitive Adhesives and Products Volume 3: Applications of Pressure-Sensitive Products* **Handbook of Adhesion Technology** Springer Science & Business Media *Adhesives have been used for thousands of years, but until 100 years ago, the vast majority was from natural products such as bones, skins, fish, milk, and plants. Since*

about 1900, adhesives based on synthetic polymers have been introduced, and today, there are many industrial uses of adhesives and sealants. It is difficult to imagine a product—in the home, in industry, in transportation, or anywhere else for that matter—that does not use adhesives or sealants in some manner. The Handbook of Adhesion Technology is intended to be the definitive reference in the field of adhesion. Essential information is provided for all those concerned with the adhesion phenomenon. Adhesion is a phenomenon of interest in diverse scientific disciplines and of importance in a wide range of technologies. Therefore, this handbook includes the background science (physics, chemistry and materials science), engineering aspects of adhesion and industry specific applications. It is arranged in a user-friendly format with ten main sections: theory of adhesion, surface treatments, adhesive and sealant materials, testing of adhesive properties, joint design, durability, manufacture, quality control, applications and emerging areas. Each section contains about five chapters written by internationally renowned authors who are authorities in their fields. This book is intended to be a reference for people needing a quick, but authoritative, description of topics in the field of adhesion and the practical use of adhesives and sealants. Scientists and engineers of many different backgrounds who need to have an understanding of various aspects of adhesion technology will find it highly valuable. These will include those working in research or design, as well as others involved with marketing services. Graduate students in materials, processes and manufacturing will also want to consult it. **Rubber Technologist's Handbook** [iSmithers Rapra Publishing](#) Annotation. This book provides a foundation in rubber technology and discusses the most recent developments in the subject. The fourteen chapters cover natural rubber, synthetic rubber, thermoplastic elastomers, fillers, compounding additives, mixing, engineering design, testing, tyre technology, automotive applications, footwear, rubbers in construction, durability of rubber products and rubber recycling. **Kent and Riegel's Handbook of Industrial Chemistry and Biotechnology** [Springer Science & Business Media](#) This substantially revised and updated classic reference offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The two volume Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in the book's new chapters. **Handbook of Polymers** [Elsevier](#) Handbook of Polymers, Third Edition represents an update on available data, including new values for many commercially available products, verification of existing data, and removal of older data where it is no longer useful. Polymers selected for this edition include all primary polymeric materials used by the plastics and chemical industries and specialty polymers used in the electronics, pharmaceutical, medical and aerospace fields, with extensive information also provided on biopolymers. The book includes data on all polymeric materials used by the plastics industry and branches of the chemical industry, as well as specialty polymers in the electronics, pharmaceutical, medical and space fields. The entire scope of the data is divided into sections to make data comparison and search easy, including synthesis, physical, mechanical, and rheological properties, chemical resistance, toxicity, environmental impact, and more. Provides key data on all primary polymeric materials used in a wide range of industries and applications Presents easy-to-access data divided into sections, making comparisons and search simple and intuitive Includes data on general properties, history, synthesis, structure, physical properties, mechanical properties, chemical resistance, flammability, weather stability, toxicity, and more **Polymers and Plastics Technology Handbook** [ASIA PACIFIC BUSINESS PRESS Inc.](#) Plastics play a very important role in our daily lives. Throughout the world the demand for plastic, particularly plastic packaging, continues to rapidly grow. Polymer technology deals with the manufacture and production of polymer and synthetic substances. Plastic is incredibly versatile and can be made from different ingredients, moulded into any shape, and put to a huge range of uses across industry and the rest of society, from carrier bags to electrical cables. Polymer energy system is an award winning, innovative, proprietary process to convert waste plastics into renewable energy. Some of the important example of polymers and plastics are polytetra fluoroethylene (PTFE), polyether sulphone (PES), phenol-formaldehyde (PF), polyolefins, vinyl polymers, thermoplastic polyesters, polysulfones, poly(phenylene sulfide), etc. Polymers are the most rapidly growing sector of the materials industry. The Indian plastic industry has taken great strides. In the last few decades, the industry has grown to the status of a leading sector in the country with a sizable base. The material is gaining notable importance in different spheres of activity and the per capita consumption is increasing at a fast pace. Continuous advancements and developments in polymer technology, processing machineries, expertise, and cost effective manufacturing is fast replacing the typical materials in different segments with plastics. On the basis of value added, Indian share of plastic products industry is about 0.5% of national GDP. The major contents of the book are properties and applications of speciality plastics, thermoset plastics, applications of recycle plastics, introduction of polymer science, polymer additives, blends and composites, commodity thermoplastics and fibres etc. This book also consists of raw material suppliers for plastic and plastic products, manufacturers of plastic, processing machinery, plastics processing machinery and equipment (foreign), machinery and equipment for plastic converting, extruders and extrusion lines, injection moulding machines, presses and accessories, blow moulding and thermoforming machines etc. The book has been designed with the idea of blending and integrating basic polymer science and the technology of plastics into a composite structure. This book is an outcome of an endeavour in the direction of polymer and plastic processing. It would be of immense use to entrepreneurs, consultants, students and libraries etc. **Handbook of Polymer Testing Physical Methods** [CRC Press](#) 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. **Engineered Materials Handbook, Desk Edition** [ASM International](#) A comprehensive reference on the properties, selection, processing, and applications of the most widely used nonmetallic engineering materials. Section 1, General Information and Data, contains information applicable both to polymers and to ceramics and glasses. It includes an illustrated glossary, a collection of engineering tables and data, and a guide to materials selection. Sections 2 through 7 focus on polymeric materials--plastics, elastomers, polymer-matrix composites, adhesives, and sealants--with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook. Ceramics and glasses are covered in Sections 8 through

12, also with updated and expanded information. Annotation copyright by Book News, Inc., Portland, OR **Riegel's Handbook of Industrial Chemistry** Springer Science & Business Media The aim of this book is to present in a single volume an up-to-date account of the chemistry and chemical engineering which underlie the major areas of the chemical process industry. This most recent edition includes several new chapters which comprise important threads in the industry's total fabric. These new chapters cover waste minimization, safety considerations in chemical plant design and operation, emergency response planning, and statistical applications in quality control and experimental planning. Together with the chapters on chemical industry economics and wastewater treatment~ they provide a unifying base on which the reader can most effectively apply the information provided in the chapters which describe the various areas of the chemical process industries. The ninth edition of this established reference work contains the contributions of some fifty experts from industry, government, and academe. I have been humbled by the breadth and depth of their knowledge and expertise and by the willingness and enthusiasm with which they shared their knowledge and insights. They have, without exception, been unstinting in their efforts to make their respective chapters as complete and informative as possible within the space available. Errors of omission, duplication, and shortcomings in organization are mine. Grateful acknowledgment is made to the editors of technical journals and publishing houses for permission to reproduce illustrations and other materials and to the many industrial concerns which contributed drawings and photographs. Comments and criticisms by readers will be welcome. **Rubber Technology** Springer Science & Business Media About ten years after the publication of the Second Edition (1973), it became apparent that it was time for an up-date of this book. This was especially true in this case, since the subject matter has traditionally dealt mainly with the structure, properties, and technology of the various elastomers used in industry, and these are bound to undergo significant changes over the period of a decade. In revising the contents of this volume, it was thought best to keep the original format. Hence the first five chapters discuss the same general subject matter as before. The chapters dealing with natural rubber and the synthetic elastomers are up-dated, and an entirely new chapter has been added on the thermoplastic elastomers, which have, of course, grown tremendously in importance. Another innovation is the addition of a new chapter, "Miscellaneous Elastomers," to take care of "old" elastomers, e.g., polysulfides, which have decreased some what in importance, as well as to introduce some of the newly-developed synthetic rubbers which have not yet reached high production levels. The editor wishes to express his sincere appreciation to all the contributors, without whose close cooperation this task would have been impossible. He would especially like to acknowledge the invaluable assistance of Dr. Howard Stephens in the planning of this book, and for his suggestion of suitable authors. **Physical Properties of Polymers Handbook** Springer Science & Business Media This book offers concise information on the properties of polymeric materials, particularly those most relevant to physical chemistry and chemical physics. Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures, reinforcing phases in polymers, and experiments on single polymer chains. The study of complex materials is highly interdisciplinary, and new findings are scattered among a large selection of scientific and engineering journals. This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials. **Construction Materials Reference Book** Routledge This book is the definitive reference source for professionals involved in the conception, design and specification stages of a construction project. The theory and practical aspects of each material is covered, with an emphasis being placed on properties and appropriate use, enabling broader, deeper understanding of each material leading to greater confidence in their application. Containing fifty chapters written by subject specialists, Construction Materials Reference Book covers the wide range of materials that are encountered in the construction process, from traditional materials such as stone through masonry and steel to advanced plastics and composites. With increased significance being placed on broader environmental issues, issues of whole life cost and sustainability are covered, along with health and safety aspects of both use and installation. **Handbook of Vinyl Polymers Radical Polymerization, Process, and Technology, Second Edition** CRC Press Radical polymerization is one of the most widely used means of producing vinyl polymers, supporting a myriad of commercial uses. Maintaining the quality of the critically acclaimed first edition, the Handbook of Vinyl Polymers: Radical Polymerization, Process, and Technology, Second Edition provides a fully updated, single-volume source on the chemistry, technology, and applications of vinyl polymers. Emphasizes radical initiating systems and mechanisms of action... Written by renowned researchers in the field, this handbook is primarily concerned with the physical and organic chemistry of radical vinyl polymerization. The authors survey the most recent advances, processing methods, technologies, and applications of free radical vinyl polymerization. The book features thorough coverage of polymer functionalization, photo initiation, block and graft copolymers, and polymer composites. Analyzes living/controlled radical polymerization, one of the latest developments in the field... Combining fundamental aspects with the latest advances, processing methods, and applications in free radical vinyl polymerization and polymer technology, this invaluable reference provides a unified, in-depth, and innovative perspective of radical vinyl polymerization. **Handbook of Fiber Finish Technology** CRC Press Discusses the components of textile finishes, and the chemical and physical properties of, as well as their effects on, various fibres. The book covers fundamentals of fibre finish science, such as theories of friction; laboratory testing of formulations, from preliminary component evaluation to analyses for material characterization; and the influence of wetting, emulsification and finish distribution on coatings. **Handbook of Polymer Foams** iSmithers Rapra Publishing This Handbook reviews the chemistry, manufacturing methods, properties and applications of the synthetic polymer foams used in most applications. In addition, a chapter is included on the fundamental principles, which apply to all polymer foams. There is also a chapter on the blowing agents used to expand polymers and a chapter is on microcellular foams - a relatively new development where applications are still being explored. **Handbook of Engineering Polymeric Materials** CRC Press Presenting practical information on new and conventional polymers and products as alternative materials and end-use applications, this work details technological advancements in high-structure plastics and elastomers, functionalized materials, and their product applications. The book also provides a comparison of manufacturing and processing techniques from around the world. It emphasizes product characterization, performance attributes and structural properties. **Mineral-Filled Polymer Composites Handbook, Two-Volume Set** CRC Press Mineral-filled polymer composites exhibit several advantages that make this material class attractive for a variety of applications, including their low cost, light weight, excellent rigidity, and high mechanical strength. Mineral-Filled Polymer Composites Handbook serves as a comprehensive overview of the latest research, trends, applications, and future directions of advanced mineral fiber-

reinforced polymer composites. Comprised of 2 volumes: *Mineral-Filled Polymer Composites: Perspective, Properties, and New Materials* *Mineral-Filled Polymer Composites: Selection, Processing, and Applications* Presents details on processing, applications, and ageing of macro- to nanosized mineral reinforced polymer composites Examines fabrication techniques, novel synthesis methods, and mechanical behavior, thermal, flammability, and functional properties of a wide array of mineral filled polymer composite materials Covers a broad range of different research fields, including organic and inorganic filler used in the development of composites for various types of engineering applications Offers the latest developments in nano/micromineral-based polymer composites This book serves as an excellent reference guide for researchers, advanced students, academics, and industry professionals interested in the synthesis of mineral-filled polymer and biopolymer composites, as well as those pursuing research in the broad fields of composite materials, polymers, organic/inorganic hybrid materials, and nano-assembly. **Coated and Laminated Textiles** Elsevier Coating and lamination offer methods of improving and modifying the physical properties and appearance of fabrics and also the development of entirely new products by combining the benefits of fabrics, polymers and films. This detailed book covers all aspects of coating and lamination within the textile industry including – compound ingredients, how to set and adhere to strictly controlled processing conditions, the accurate control of production variables, the safe handling of toxic materials and the ongoing research into future products which will facilitate recycling and disposal. This book is particularly useful in the insight it gives about the challenges and opportunities that these new treatments offer and is essential reading for technologists, chemists and production engineers working in this exciting field. Authoritative review of the latest developments in coating and lamination processes for textiles Focuses on the importance of setting and adhering to processing conditions Written by the author of the well-known *Textiles in automotive engineering* **Plastics Technology Handbook, Fourth Edition** CRC Press Because the field of plastics is one of the fastest changing areas today, the need arises to offer relevant, comprehensive material on polymers. An established source of information on modern plastics, the *Plastics Technology Handbook* continues to provide up-to-date coverage on the properties, processing methods, and applications of polymers. Retaining the easy-to-follow structure of the previous editions, this fourth edition includes new topics of interest that reflect recent developments and lead to better insights into the molecular behavior of polymers. New to the Fourth Edition Advances in supramolecular polymerization, flame retardancy, polymer-based nanomedicines, and drug delivery The new concept of oxo-biodegradable polymers Broadened discussion on plastic foams and foam extrusion processes More information on the processing and applications of industrial polymers, including the emerging field of nanoblends Developments in polymer synthesis and applications, such as polymeric sensors, hydrogels and smart polymers, hyperbranched polymers, shape memory polymers, polymeric optical fibers, scavenger resins, polymer nanocomposites, polymerization-filled composites, and wood-polymer composites A state-of-the-art account of the various available methods for plastics recycling Advances in the use of polymers in packaging, construction, the automotive and aerospace industries, agriculture, electronics and electrical technology, biomedical applications, corrosion prevention, and sports and marine applications *Plastics Technology Handbook, Fourth Edition* thoroughly covers traditional industrial polymers and their processing methods as well as contemporary polymeric materials, recent trends, and the latest applications. **Handbook of Radical Vinyl Polymerization** CRC Press "Brings together all fundamental aspects and the latest advances in free radical vinyl polymerization, including powerful new techniques such as the initiation of radical vinyl polymerization by high-energy radiation, photoirradiation, nonmetal organic initiators, and transition metal initiators." **Handbook of Industrial Automation** CRC Press Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation, including mathematical fundamentals, ergonomics, industrial robotics, government safety regulations, and economic analyses. **Handbook of Industrial Chemistry and Biotechnology** Springer Science & Business Media Substantially revising and updating the classic reference in the field, this handbook offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors, but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry (specifically, biomass conversion), Practical Catalysis, and Environmental Measurements; as well as expanded treatment of Safety, chemistry plant security, and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review, and modification. Important topics in the energy field, namely nuclear, coal, natural gas, and petroleum, are covered in individual chapters. Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins. **Condensed Handbook of Occupational Dermatology** Springer Science & Business Media This handbook provides the concise information needed in dealing with patients in the field of occupational dermatology. It combines a highly practical approach to occupational dermatology with the skills and research experience of specialists in clinical and experimental dermatology. The information is presented in a quick reference format with concise tables, algorithms, and figures on how to optimise the diagnostic procedures for high-quality care. **Handbook of Polymer Synthesis Second Edition** CRC Press An in-depth review of important preparative methods for the synthesis and chemical modification of polymers, this authoritative second edition examines the advantages and limitations of various polymerization applications and procedures. It features new approaches and innovative strategies from the most prominent industry and academic laboratories, **Handbook of Radical Polymerization** John Wiley & Sons Mechanism, synthesis, characterization, and applications of freeradical polymerization (Co)polymers prepared via free radical mechanism, together with polyolefins, comprise the largest portion of the commodity plastics industry and are also used for preparation of many specialty materials. Handbook of Radical Polymerization provides a concise source of information on mechanisms, synthetic techniques, and characterization methods and addresses future trends for polymers made by free radical intermediates. A one-stop, at-your-fingertips source of information for students, researchers, technologists, and industrial managers, the Handbook functions as a single reference of the conventional and controlled/living radical polymerization methods. Two expert editors

collect and present historical background of the technique, basic information regarding various free radical polymerization systems, and state-of-the-art experimental techniques and industrial applications. Chapters written by internationally acclaimed experts in their respective fields include: \* Theory of Radical Reactions \* The Kinetics of Free Radical Polymerization \* Industrial Applications and Processes \* Nitroxide Mediated Living Radical Polymerization \* Atom Transfer Radical Polymerization \* Control of Free Radical Polymerization by Chain Transfer Methods \* Macromolecular Engineering by Controlled Radical Polymerization Guaranteed to have a long shelf life, the Handbook of Radical Polymerization promises to be an indispensable resource for chemists, chemical engineers, material scientists, and graduate students in the field, as well as a valuable addition to industrial, academic, and government libraries. **A Handbook of Polymer Chemistry** [Mittal Publications](#) **Handbook of Polyolefins** [CRC Press](#) A handbook on polyolefins. This second edition includes new material on the structure, morphology and properties of polyolefin (PO) synthesis. It focuses on synthetic advances, the use of additives, special coverage of PO blends, composites and fibres, and surface treatments. It also addresses the problem of interfacial and superficial phenomena. **Handbook of Rubber Bonding** [iSmithers Rapra Publishing](#) Annotation. Many books and papers have been published on adhesion of materials in general but the topics covered by this book have been selected to cover a wide range of interests, both in terms of products and applications. Although there is some discussion of relevant theory in various sections of d104, the emphasis in this volume has been to concentrate on the practicalities of bonding of rubbers, to themselves and substrates. It is considered that this type of information is of immediate interest to the practising technologist dealing with shop floor problems on a daily basis. **The Whole Building Handbook How to Design Healthy, Efficient and Sustainable Buildings** [Routledge](#) The Whole Building Handbook is a compendium of all the issues and strategies that architects need to understand to design and construct sustainable buildings for a sustainable society. The authors move beyond the current definition of sustainability in architecture, which tends to focus on energy-efficiency, to include guidance for architecture that promotes social cohesion, personal health, renewable energy sources, water and waste recycling systems, permaculture, energy conservation - and crucially, buildings in relation to their place. The authors offer a holistic approach to sustainable architecture and authoritative technical advice, on: \* How to design and construct healthy buildings, through choosing suitable materials, healthy service systems, and designing a healthy and comfortable indoor climate, including solutions for avoiding problems with moisture, radon and noise as well as how to facilitate cleaning and maintenance. \* How to design and construct buildings that use resources efficiently, where heating and cooling needs and electricity use is minimized and water-saving technologies and garbage recycling technologies are used. \* How to 'close' organic waste, sewage, heat and energy cycles. For example, how to design a sewage system that recycles nutrients. \* Includes a section on adaptation of buildings to local conditions, looking at how a site must be studied with respect to nature, climate and community structure as well as human activities. The result is a comprehensive, thoroughly illustrated and carefully structured textbook and reference. **Handbook of Accelerator Physics and Engineering** [World Scientific](#) Edited by internationally recognized authorities in the field, this expanded and updated new edition of the bestselling Handbook, containing more than 100 new articles, is aimed at the design and operation of modern particle accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations, 300 illustrations and 500 graphs and tables, here one will find, in addition to the common formulae of previous compilations, hard-to-find, specialized formulae, recipes and material data pooled from the lifetime experience of many of the world's most able practitioners of the art and science of accelerators. The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types. Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam, beam-electron, beam-ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned. A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors, real-time feedbacks, generation of short photon pulses, bunch compression, tuning of normal and superconducting linacs, energy recovery linacs, free electron lasers, cooling, space-charge compensation, brightness of light sources, collider luminosity optimization and collision schemes. Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration. Hardware systems for particle sources, feedback systems, confinement and acceleration (both normal conducting and superconducting) receive detailed treatment in a subsystems chapter, beam measurement techniques and apparatus being treated therein as well. The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices. A detailed name and subject index is provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found. **Handbook of Polymer-Liquid Interaction Parameters and Solubility Parameters** [CRC Press](#) Now available for the first time, this valuable reference presents polymer solubility parameters and various polymer-liquid interaction parameters in an easy-to-use form. It critically evaluates and comprehensively compiles data from original sources. It presents these quantities polymer-by-polymer, alphabetically by polymer common chemical name, fully cross-referenced by systematic chemical names, alternative names and trade names. This one-of-a-kind handbook summarizes the relationship between the various quantities and their methods of determination. This resource is an absolute must for all who are interested in the chemical industry, specifically polymer chemistry, chemical engineering, applied chemistry, and physical chemistry.