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Thoroughly updated, Introduction to Polymers, Third Edition presents the science underpinning the synthesis, characterization and properties of polymers. The material has been completely reorganized and expanded to include important new topics and provide a coherent platform for teaching and learning the fundamental aspects of contemporary polymer science. New to the Third Edition Part I This first part covers newer developments in polymer synthesis, including ‘ living ’ radical polymerization, catalytic chain transfer and free-radical ring-opening polymerization, along with strategies for the synthesis of conducting polymers, dendrimers, hyperbranched polymers and block copolymers. Polymerization mechanisms have been made more explicit by showing electron movements. Part II In this part, the authors have added new topics on diffusion, solution behaviour of polyelectrolytes and field-flow fractionation methods. They also greatly expand coverage of spectroscopy, including UV visible, Raman, infrared, NMR and mass spectroscopy. In addition, the Flory – Huggins theory for polymer solutions and their phase separation is treated more rigorously. Part III A completely new, major topic in this section is multicomponent polymer systems. The book also incorporates new material on macromolecular dynamics and reptation, liquid crystalline polymers and thermal analysis. Many of the diagrams and micrographs have been updated to more clearly highlight features of polymer morphology. Part IV The last part of the book contains major new sections on polymer composites, such as nanocomposites, and electrical properties of polymers. Other new topics include effects of chain entanglements, swelling of elastomers, polymer fibres, impact behaviour and ductile fracture. Coverage of rubber-toughening of brittle plastics has also been revised and expanded. While this edition adds many new concepts, the philosophy of the book remains unchanged. Largely self-contained, the text fully derives most equations and cross-references topics between chapters where appropriate. Each chapter not only includes a list of further reading to help readers expand their knowledge of the subject but also provides problem sets to test understanding, particularly of numerical aspects.

Handbook of Plasticizers, Third Edition, is an essential professional reference, providing information that enables R&D scientists, production chemists, and engineers the information they need to use plasticizers more effectively, and to avoid certain plasticizers in applications where they may cause health or material durability problems. Plasticizers are vital to the plastics industry, particularly in improving the properties of materials such as PVC. Plasticizers are commonly added to complex mixtures containing a variety of materials, so successful incorporation requires a broad understanding of the mechanisms of plasticizer action, and compatibility with different materials and blends. There is a large selection of commercial plasticizers, and various environmental issues which impact on selection decisions. The book discusses new and historical approaches to the use of plasticizers, explaining mechanisms of plasticizers' action and their behavior in plasticized systems. It goes into detail on the use of plasticizers in a range of specific polymers, polymer blends, and other industrial products. This includes coverage of the impact of plasticizers on processing. George Wypych provides the data and know-how from the most recent sources and updated information required by engineers and scientists working in the plastics industry and the many industry sectors that use plastics in their products. The book covers the uses, advantages, and disadvantages of plasticizers, historical and theoretical background, their effects on process conditions, and health, safety, and environmental issues. Enables materials scientists, chemists and engineers to use plasticizers more effectively, and avoid health and safety or performance risks Includes detailed coverage of the impact of plasticizers on polymers, and processing methods Provides the broad background of information required to select the correct plasticizer for any application Covers the uses, advantages, and disadvantages of plasticizers, including historical and theoretical background

Exploring the chemistry of synthesis, mechanisms of polymerization, reaction engineering of step-growth and chain-growth polymerization, polymer characterization, thermodynamics and structural, mechanical, thermal and transport behavior of polymers as melts, solutions and solids, Fundamentals of Polymer Engineering, Third Edition covers essential concepts and breakthroughs in reactor design and polymer production and processing. It contains modern theories and real-world examples for a clear understanding of polymer function and development. This fully updated edition addresses new materials, applications, processing techniques, and interpretations of data in the field of polymer science. It discusses the conversion of biomass and coal to plastics and fuels, the use of porous polymers and membranes for water purification, and the use of polymeric membranes in fuel cells. Recent developments are brought to light in detail, and there are new sections on the improvement of barrier properties of polymers, constitutive equations for polymer melts, additive manufacturing and polymer recycling. This textbook is aimed at senior undergraduate students and first year graduate students in polymer engineering and science courses, as well as professional engineers, scientists, and chemists. Examples and problems are included at the end of each chapter for concept reinforcement.

Many significant fundamental concepts and practical applications have developed since the publication of the best-selling second edition of the Handbook of Conducting Polymers. Now divided into two books, the third edition continues to retain the excellent expertise of the editors and world-renowned contributors while providing superior coverage of the recent advances

in polymer processing and applications, particularly in conductivity, nonlinear optics, and light emission. *Conjugated Polymers: Processing and Applications*, the second of two volumes, picks up where the first volume ended. It concentrates on the numerous processing methods for conducting polymers and their integration into various devices and applications. The book first examines coating, printing, and spinning methods for complex patterned films and fibers. It then shows how conducting and semiconducting polymers are applied in many devices, such as light-emitting displays, solar cells, field effect transistors, electrochromic panels, charge storage devices, biosensors, and actuators. Following the essential scientific information found in the first installment, this book explores the ways in which polymers are useful in industrial and commercial applications. These application developments have already led to marketable products.

Discussing theory and transport, synthesis, processing, properties, and applications, this second edition of a standard resource covers advances in the field of electrically conducting polymers and contains more than 1500 drawings, photographs, tables, and equations. Maintaining the style of presentation and depth of coverage that made the first edition so popular, it contains the authoritative contributions of an interdisciplinary team of world-renowned experts encompassing the fields of chemistry, physics, materials science, and engineering. *The Handbook of Conducting Polymers* highlights progress, delineates improvements, and examines novel tools for polymer and materials scientists..

*Handbook of Polymers, Second Edition*, presents normalized, up-to-date polymer data in a consistent and easily referenceable layout. This new edition represents an update of the 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. The book includes data on all major polymeric materials used by the plastics industry and all branches of the chemical industry, as well as specialty polymers used 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 and environmental impact, and more. The data enables engineers and materials scientists to solve practical problems, be that in applications, research and development, or legislation. The most current grades of materials have been selected to provide readers with information that is characteristic of currently available products. Includes practical data on the most widely used polymers for engineers and materials scientists in design, manufacture, and applications research  
Presents data on polymer synthesis, properties, chemical resistance, processing, and their related environmental impacts  
Provides a comprehensive update to the data, including new information and the verification of existing datasets

Providing an updated and comprehensive account of the properties of solid polymers, the book covers all aspects of mechanical behaviour. This includes finite elastic behavior, linear viscoelasticity and mechanical relaxations, mechanical anisotropy, non-linear viscoelasticity, yield behavior and fracture. New to this edition is coverage of polymer nanocomposites,

and molecular interpretations of yield, e.g. Bowden, Young, and Argon. The book begins by focusing on the structure of polymers, including their chemical composition and physical structure. It goes on to discuss the mechanical properties and behaviour of polymers, the statistical molecular theories of the rubber-like state and describes aspects of linear viscoelastic behaviour, its measurement, and experimental studies. Later chapters cover composites and experimental behaviour, relaxation transitions, stress and yielding. The book concludes with a discussion of breaking phenomena.

"Completely updated and enlarged to reflect the advances that have taken place since the publication of the Second Edition. Third Edition offers concise examinations of the chemical nature, characteristic properties, and uses of traditional industrial polymers, such as acrylics, polyolefins, vinyl polymers, polyesters, epoxies, and silicones, among others."

UHMWPE Biomaterials Handbook describes the science, development, properties and application of ultra-high molecular weight polyethylene (UHMWPE) used in artificial joints. This material is currently used in 1.4 million patients around the world every year for use in the hip, knee, upper extremities, and spine. Since the publication of the 1st edition there have been major advances in the development and clinical adoption of highly crosslinked UHMWPE for hip and knee replacement. There has also been a major international effort to introduce Vitamin E stabilized UHMWPE for patients. The accumulated knowledge on these two classes of materials are a key feature of the 2nd edition, along with an additional 19 additional chapters providing coverage of the key engineering aspects (biomechanical and materials science) and clinical/biological performance of UHMWPE, providing a more complete reference for industrial and academic materials specialists, and for surgeons and clinicians who require an understanding of the biomaterials properties of UHMWPE to work successfully on patient applications. The UHMWPE Handbook is the comprehensive reference for professionals, researchers, and clinicians working with biomaterials technologies for joint replacement. New to this edition: 19 new chapters keep readers up to date with this fast moving topic, including a new section on UHMWPE biomaterials; highly crosslinked UHMWPE for hip and knee replacement; Vitamin E stabilized UHMWPE for patients; clinical performance, tribology and biologic interaction of UHMWPE. State-of-the-art coverage of UHMWPE technology, orthopedic applications, biomaterial characterisation and engineering aspects from recognised leaders in the field.

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