

Polymer Chemistry

A NINTH EDITION

Malcolm P. Stevens

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Polymer Chemistry Introduction Malcolm Stevens

Malcolm P. Stevens



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or as a reference for professionals our book offers valuable insights into the fascinating world of polymer chemistry

Polymers Mohamed Elzagheid, 2025-07-21 The second edition of Macromolecular Chemistry broadens into two areas biomacromolecules Volume 1 and polymers Volume 2 Polymers covers polymer history polymerization reactions polymer morphology technology characterization and testing processing and recycling The book discusses the building blocks of synthetic polymers comparison of macromolecules and polymers polymer classification and illustration of polymer chemical structures Polymerization reactions such as step growth polymerization and chain growth polymerization are extensively discussed It then presents tacticity molecular interactions and polymer crystals Biodegradable polymers biomedical polymers conducting polymers electroluminescent polymers water soluble polymers additives adhesives fibres and coatings are described The next section explores inorganic polymers such as polysilanes polysiloxanes and polyphosphazenes The book then delves into polymer characterization and testing including Infrared Spectroscopy Raman Spectroscopy NMR X ray Spectroscopy and Electron Microscopy and the last section addresses selected polymer processing techniques such as moulding casting extrusion coatings and foaming

Chemistry for Engineers Teh Fu Yen, 2008 Science is a broad interdisciplinary subject comprising physics chemistry and biology Physics deals with atomic matter and energy while biology or health sciences deals with much larger molecular systems Chemistry is perhaps the most essential science as it serves as a bridge between these two fields With this in mind Chemistry for Engineers is a one of a kind well written book that focuses on chemistry as applicable to engineers It provides a comprehensive review of the basic branches and principles of chemistry and also discusses the applications of chemistry in fields such as cement chemistry asphalt chemistry and polymer chemistry among others Readers interested in chemical engineering will find this volume invaluable as a reference book

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The Essential Handbook of Polymer Terms and Attributes Munmaya K Mishra, Biao Duan, 2024-07-30 The Essential Handbook of Polymer Terms and Attributes not only acts as an encyclopaedia of polymer science but also fosters an appreciation for the significance of polymers in fields including materials science chemistry engineering and medicine This book serves as an excellent reference book covering every possible term and attribution associated with the vast and diverse field of polymers This comprehensive volume serves as a vital resource for researchers working in industry and academia offering a clear and concise exploration of polymer science with the most essential reference data available Each polymer term is defined in a straightforward manner ensuring that readers of all levels can grasp the concepts The book goes beyond mere definitions providing context and insights into the applications properties and synthesis Bringing polymer terms and attributes together in one place the book provides a broad knowledge of polymer science and facilitates idea generation for

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