

Contemporary Polymer Chemistry Solutions Manual

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containing the solutions to all the problems in Stevens polymer chemistry third edition this manual is available gratis to professors adopting the textbook for a course

this book is mainly concerned with building a narrow but secure ladder which polymer chemists or engineers can climb from the primary level to an advanced level without great difficulty but by no means easily either this book describes some fundamentally important topics carefully chosen covering subjects from thermodynamics to molecular weight and its distribution effects for help in self education the book adopts a questions and answers format the mathematical derivation of each equation is shown in detail for further reading some original references are also given numerous physical properties of polymer solutions are known to be significantly different from those of low molecular weight solutions the most probable explanation of this obvious discrepancy is the large molar volume ratio of solute to solvent together with the large number of consecutive segments that constitute each single molecule of the polymer chains present as solute thorough understanding of the physical chemistry of polymer solutions requires some prior mathematical background in its students in the original literature detailed mathematical derivations of the equations are universally omitted for the sake of space saving and simplicity in textbooks of polymer science only extremely rough schemes of the theories and then the final equations are shown as a consequence the student cannot learn unaided the details of the theory in which he or she is interested from the existing textbooks however without a full understanding of the theory one cannot analyze actual experimental data to obtain more basic and realistic physical quantities in particular if one intends to apply the theories in industry accurate understanding and ability to modify the theory are essential

the first four chapters use a synthetic approach with some elementary physical chemistry necessary for the understanding of the mechanisms and theoretical principles involved this is followed by an account of morphology and molecular weight determinations of polymers the following five chapters are devoted to the technological aspects of elastomers fiber forming materials and plastics a description of the characterization of polymers especially by spectroscopy and thermal analysis is followed by a discussion of important polymer reactions and polymer reactants the last two chapters are concerned with solubility and flow properties of polymers each chapter contains questions with answers and ten specimen laboratory exercises have also been provided

this book deals with the organic chemistry of polymers which find technological use as adhesives fibres paints plastics and rubbers for the most part only polymers which are of commercial significance are considered and the primary aim of the book is to relate theoretical aspects to industrial practice the book is mainly intended for use by students in technical institutions and universities who are specializing in polymer science and by graduates who require an introduction to this field several excellent books have recently appeared dealing with the physical chemistry of polymers but the organic chemistry of polymers has not received so much attention in recognition of this situation and because the two aspects of polymer chemistry are often taught separately this book deals specifically with organic chemistry and topics of physical chemistry have been omitted also in this way the book has

been kept to a reasonable size this is not to say that integration of the two areas of polymer science is undesirable on the contrary it is of the utmost importance that the inter relationship should be appreciated I wish to record my thanks to my colleagues with whom I have had many helpful discussions particularly Mrs S L Radchenko I also thank Miss E Friesen for obtaining many books and articles on my behalf and Mr H Harms for encouragement and assistance I am also grateful to Mrs M Stevens who skilfully prepared the manuscript department of chemical and metallurgical technology Ryerson Polytechnical Institute K J S

an introduction to the synthetic natural organometallic and inorganic polymers integrating scientific principles with modern applications this fifth edition is based on the American Chemical Society's committee on professional training guidelines with an enhanced section on biologically essential macromolecules and the biological flow of information an exam question booklet is available to instructors

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