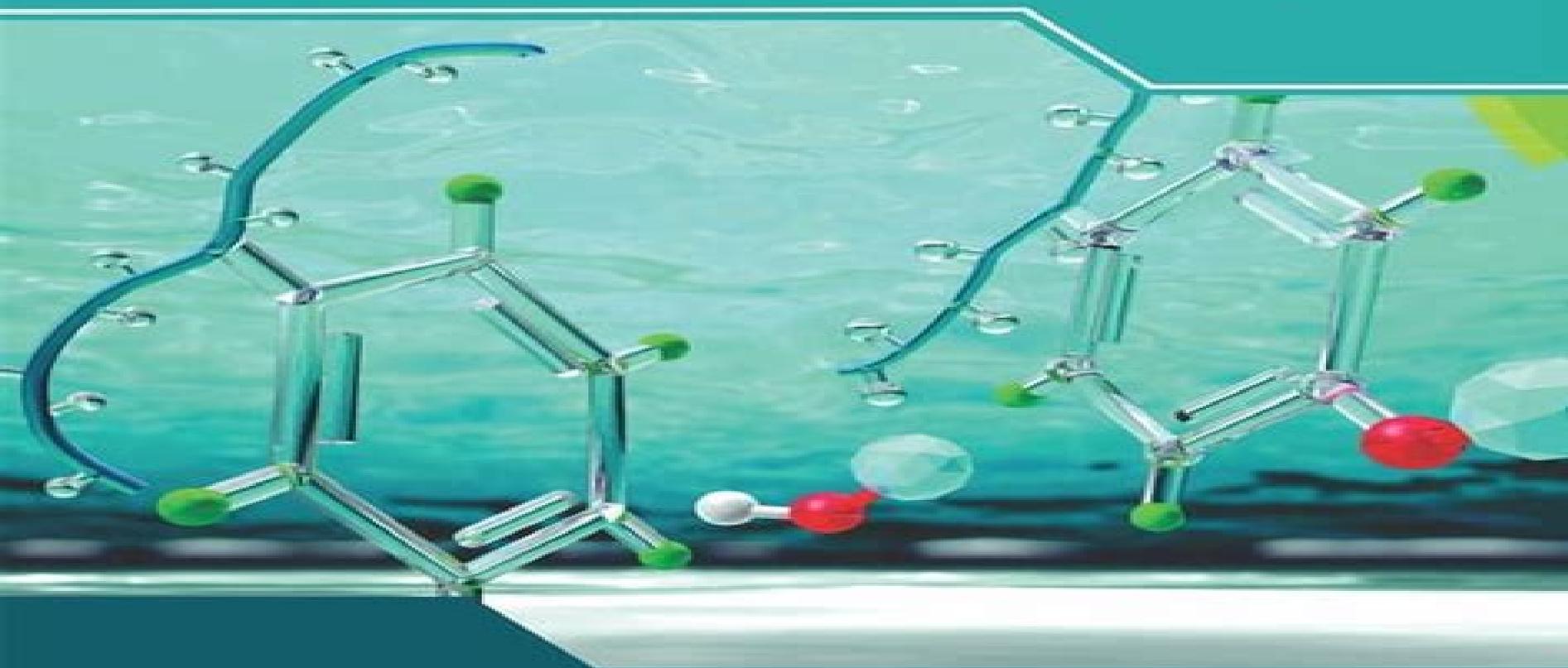


Introduction to **Polymer Chemistry**



Walter O'Hara

Polymer Chemistry An Introduction

JR Anderson



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polymeric compositions are primarily studied in this domain This includes rubber plastics fibers and composites Almost all synthetic polymers are obtained from petrochemicals This book is a compilation of chapters that discuss the most vital concepts in the field of polymer chemistry Most of the topics introduced herein cover new techniques and applications of this discipline It is a complete source of knowledge on the present status of this important field Polymer Chemistry: An Introduction Brent Burton,2025-08-25 The polymerization process of monomers leads to the formation of a large macromolecule known as a polymer Polymer chemistry is the specialized area of chemistry concerned with the chemical synthesis physical and chemical traits and structure of macromolecules and polymers This field predominantly engages with synthetic and organic compositions Commercial materials and products like plastics and rubbers heavily rely on synthetic polymers They also constitute significant components of composite materials Various techniques employed in this domain include cell free protein synthesis polycondensation free radical polymerization protein biosynthesis and ionic polymerization This book explores all the important aspects of polymer chemistry in the present day scenario It elucidates new techniques and their applications in a multidisciplinary approach It is designed to provide deep insights about the subject to the readers

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Building on undergraduate work in foundational courses the text fulfills the American Chemical Society Committee on Professional Training ACS CPT in depth course requirement It also provides a test bank with upon qualifying course adoption

An Introduction to Polymer Chemistry D. Margerison, G. C. East, 2013-10-22 An Introduction to Polymer Chemistry focuses on the fundamental chemistry of synthetic organic polymers of high molecular weight This book explains the basic principles of polymer chemistry from significant methods of molecular weight determination to the simpler mechanisms of polymerization The osmotic light scattering and viscosity methods of molecular weight determination are fully discussed together with the kinetics of selected examples of condensation and free radical addition polymerization The main features of ionic polymerization are also elaborated This text however does not cover the thermodynamics of polymer solutions or the methods of structure determination This publication is a good reference to university and technical college students researching on polymer chemistry

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