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chapter 17 deals with polymer chemistry in the laboratory. the major techniques used in the laboratory include infrared, circular dichroism, and nmr spectroscopy, chromatography, viscosity measurements, calorimetry, and optical microscopy. part iv (chapters 20 and 21) deals with applications of polymers in industry, including organic and inorganic chemistry, composite materials, and polymer materials. here too, new sections have been added that deal with polymer chain orientation and materials reinforcement, with the behavior of polymers within fabrication machinery, and a much expanded section on rubberlike materials. here the emphasis is on industrial applications, with emphasis on polymers in adhesives, fibers and fabrics, food packaging, coatings, polymeric electrolytes, and polymeric membranes, as well as recent developments in materials science, nanotechnology, and genetic engineering. the material is appropriate for a course in polymer science for industrial chemistry majors. in the conclusion (chapters 22-24), we review the most significant applications of polymers. chapter 22 covers the history of the development of polymers. chapter 23 deals with the molecular structure of polymers. the conformational and steric effects that determine the physical properties of polymers are discussed. chapter 24 reviews the properties of the various polymers. edward w. morley (1917-1992) was born in new york city. he graduated from harvard university and received a ph.d. in chemistry from the university of chicago. after serving as an assistant professor at the university of michigan from 1945 to 1947, he became the first frederick b. delong professor at the university of minnesota and served as chairman of the chemistry department from 1954 to 1958. he was the founding editor of the journal of polymer science. he is best known for his work on the physical properties of rubbers and other polymers. he has published more than 800 research papers and was the coauthor, with william n. hirsch, of the classic textbook polymer chemistry (1961). a recipient of the a.c.s. applied polymer science award and the charles goodyear medal, he received the c.n.p.m. dyer medal from the a. cleveland section. he was president of the a. polymer division in 1974-75. he was a member of the national academy of sciences. he is the recipient of honorary degrees from the university of oxford and the university of cambridge.



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