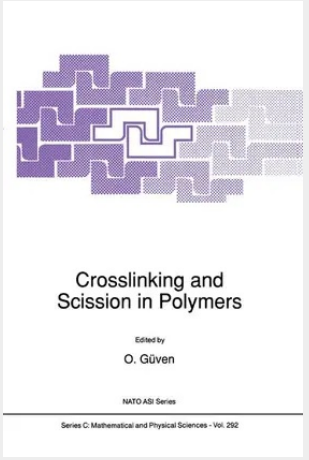
Güven

Crosslinking and Scission in Polymers

MOLECULAR WEIGHr CHANGES AND NE1WORK FORMATION BY SCISSION AND CROSSUNKING A. Charlesby 1 Introduction Main Chain Scission of Polymers _____ _ _____ _ 1 Crosslinking _____. _. _. _. __. _. _. ___. _. __. _. _. _____. _____. _ 4 5 Random Crosslinking. _. _. Enhanced Crosslinking. 8 Other Forms of Crosslinking. _. _. _. _. 10 Combined Crosslinking and Scission _____ _____ _____ _ _____. _. _. 11 Antioxidants. 11 Fillers. _. __. _. __. 12 Crosslinking of Polymers in Solution _____. _____. __ 12 References _. __ _ 13 HIGH ENERGY RADIATION-AND UV UGHr-INDUCED CROSSLINKING AND CHAIN SCISSION w. Schnabel Introduction 15 Importance of Radiation-Induced Crosslinking and Main-Chain Scission in Linear Polymers _____ _____ 15 TYPes of Radiation and Radiation Sources _. _____. _. _. _. _. _. __. 16 Absorption of Radiation. _. _. _. _. __. _. ____. _. __. _. _. _. _. _. _. _. __. _. _____. ___. 16 General Aspects Concerning XL and CS in Linear Polymers _____. _____. _____. _____ 22 Random and Specific Site Attacks. _. ____. _. _. __. _. ___. _. _. __. _. _. __. ___. __. _ 22 Detection of XL and CS. _. _. _. __. _. ___. __. _. _. _____. _. _. _. __. _. _. _. _. _. 22 Simultaneous XL and CS Mechanisms 25 Ion Beam-Induced Radiation Effects In Linear Polymers _____.

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