



Introduction to Natural and Synthetic Rubbers (Hardback)

By D. W. Duke

Chemical Publishing Co Inc., U.S., United States, 1961. Hardback. Book Condition: New. 231 x 157 mm. Language: English . Brand New Book ***** Print on Demand *****.Acknowledgements - Introduction - Contents - Part One- Natural Rubber - 1. THE STORY OF NATURAL RUBBER - The early history - The beginnings of the rubber industry - Goodyear and vulcanization - Plantation rubber - 2. THE NATURE OF NATURAL RUBBER - The physical properties of natural rubber- Tensile properties - Dynamic properties - Hardness - Abrasion - Electrical properties - The chemistry of natural rubber - Atoms and molecules - The formula of natural rubber - The elasticity of natural rubber - Part Two- Synthetic Rubber - 3. HISTORICAL INTRODUCTION TO SYNTHETIC RUBBER - The beginnings of synthetic rubber production - Synthetic rubber in the First World War - Progress between the wars - The American contribution - Developments after the Second World War - 4. THE MANUFACTURE OF GENERAL PURPOSE SYNTHETIC RUBBER - Butadiene: Petroleum - Butadiene and cracking - Styrene Production of the polymer: Emulsion polymerization - The polymerization formula - The synthetic rubber plant - 5. THE PROCESSING OF GENERAL PURPOSE SYNTHETIC RUBBER - Processing machinery: The bale-cutting machine - The...



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