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Volumes 1 and 2 of Developments in Rubber Technology cover rubbers which are processed and vulcanised in the traditional manner. It is appreciated that the omission of non-vulcanised rubber materials (the so called thermoplastic elastomers) will be unwelcome to many readers but it is intended, because of the size of the subject, to cover ...

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The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing. Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling. . Explores new applications of rubber within the tire industry, from new filler materials to "green tires (a tire that has yet to undergo curing and vulcanization). . 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment. . A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.

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The core content of this book is derived from the author's experience as a Senior Technocrat, associated with the rubber industry in the aspects of Production, R&D and new plant erection and commissioning. This book is dedicated to a variety of Rubber Starting Point Formulations that could be very useful for the rubber industry. The rubber industry is an important resource-based industry in India. Over many decades, the rubber industry has witnessed steady and strong growth. Rubber can be processed in many ways to manufacture a wide range of products. This book provides the starting point formulations that cover the manufacturing processes of rubber products such as calendaring, extrusion and molding. Thus, the book is very useful for new entrepreneurs, existing units, technical institutions and technocrats. These formulations are based on General Compounding Principles and properties such as Tensile Strength, Tear Resistance, The Crescent Tear Test, The Hardness of Rubber, Abrasion Resistance, Flex Cracking Resistance, Resilience, Heat Build-up, and Temperature Resistance. The formulations are aimed at products like Retreading Materials, Conveyor Belting, Transmission Belting and Hose, Footwear, Rubber Roller, Medical Applications, O rings and Seals, Rubber Blends and Manufacture of Latex Products.

"Provides the latest authoritative research on the developments, technology, and applications of rubbery materials. Presents structures, manufacturing techniques, and processing details for natural and synthetic rubbers, rubber-blends, rubber composites, and thermoplastic elastomers. 80% revised and rewritten material covers major advances since publication of the previous edition."

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