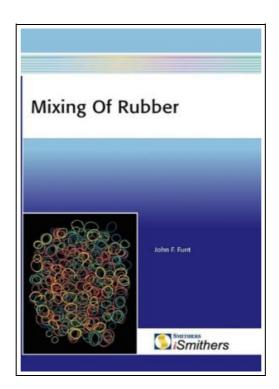
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Smithers Rapra Technology. Hardcover. Book Condition: New. Hardcover. 196 pages. Dimensions: 10.2in. x 7.0in. x 0.7in.Since the discovery of vulcanisation in the nineteenth century, rubber has been a major industrial product. From its inception, the use of vulcanising agents, reinforcing fillers and other additives has been a major feature of the rubber industry. Innumerable articles and texts attest to the chemists skill in balancing the chemical and physical properties of the manufactured products. In most cases, experimenters have been concerned with how recipe changes affect the product properties while the physical processes which formed the test specimen are not considered. For the rubber processor, however, it is these mechanical operations which form the heart of his business. The equipment needed for plant- scale production requires millions of dollars of capital investment. In the highly competitive rubber industry, the ability to save two or three cents per pound of product through better design or more efficient operation of mixing equipment can make a tremendous difference in the profitability of a company. Despite the commercial importance of the process, no comprehensive analysis of rubber mixing, considered as a unit operation, is currently available. This monograph is designed to fill that gap in the arsenal available for problem solving by the production engineer or the machine designer. Mixing as a general operation may be considered as three basic processes occurring simultaneously. Simple mixing ensures that the mixture has a uniform composition throughout its bulk, at least when viewed on a scale large compared to the size of the individual particles. In the case of solids blending (Chapter 11), the particle size need not change, but the distribution of particles throughout the mixture approaches a random distribution. If the shear forces are sufficiently large, particles may fracture, as in dispersive mixing, and the polymer...

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