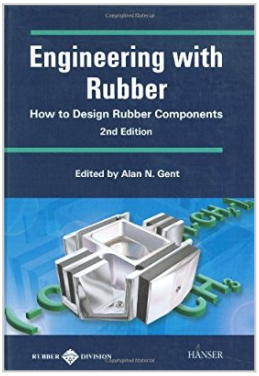

Engineering with Rubber 2E: How to Design Rubber Components

By Alan Gent

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This edition contains updated and revised material and many new problems that deal with specific issues and allow the reader to test their understanding of the materials. This book deals with some basic principles on which successful use of rubber depends, including how an elastomer is chosen and a formulation developed; why rubber is highly elastic and relatively strong; and how one can estimate the stiffness, strength, and durability of rubber products. Contents: Materials and Compounds. Elasticity. Dynamic Mechanical Properties. Strength. Mechanical Fatigue. Durability. Design of Components. Finite Element Analysis. Tests and Specifications.

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Editorial Review

About the Author
Dr. Alan N. Gent holds a distinguished chair at The University of Akron, where his is the Dr. Harold A. Morton Professor of Polymer Physics and Polymer Engineering. He has been the recipient of a number of awards during his long career, including the NASA Public Service Medal in 1988; the George Stafford Whitby Award from the ACS Rubber Division in 1987; and the 3M Excellence in Adhesion Science Award from the Adhesion Society in 1987.

Gent has published over 180 scientific papers, book chapters, and review articles on rubber and plastics materials, and is a coholder of two British patents and one U.S. patent.

A particularly significant activity that Alan undertook in recent years was his service on the National Research Council's panel, which provided oversight to the space-shuttle solid-rocket booster redesign after the disastrous Challenger explosion. Gent was awarded the NASA Public Service Medal for his contributions. Since the rocket booster problem focused on the rubber seals in the segmented case joint, it is particularly noteworthy that he was the only rubber scientist on the panel.

Users Review

From reader reviews:

Jordan Weatherspoon:

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