

CARL HANSER VERLAG

Nelson Castaño, Mauricio de Greiff, Alberto Naranjo C.

**Applied Rubber Technology**

3-446-21946-3

[www.hanser.de](http://www.hanser.de)

# 1 Introduction

The rubber industry is one of the oldest industries. For many years now, rubber products have been found everywhere, from belts to seals, and from hoses to engine mounts. To design and manufacture such products the rubber technologist must go through various procedures and steps, such as choice of materials and additives, choice of compounding equipment and vulcanization system, as well as testing procedures to evaluate the quality of the finished product. The choice of the base elastomer can be an overwhelming task, even for those with experience in rubber technology. There are hundreds of choices for rubber compounds and blends. In addition, there are hundreds of different additives for various tasks. Additives can be used for softening or plasticizing the rubber compound for easy processing. There are choices of additives that will protect the compound and the finished product from aging, ozone and fatigue, as well as various vulcanization additives that will accelerate or retard the curing process. This book gives a compact overview of rubber technology, and serves as a guide to the engineer and chemist when choosing a material and a process for a specific application.