



Rubber Materials in LS-DYNA

Objective of the course: Learn about several rubber material models in LS-DYNA to solve engineering problems. Detailed descriptions are given of the data required to use such material in analysis. Examples are used to illustrate the points made in the lectures.

Introduction

Experimental Characterization

Material Models For Rubber in LSDYNA

- 7 Blatz-Ko Rubber
- 27 Mooney-Rivlin Rubber
- 31 Frazer-Nash Rubber
- 77_H Hyperelastic and 77_O Ogden Rubber
- 87 Cellular Rubber
- 127 Arruda Boyce Rubber
- 181 Simplified Rubber/Foam
- 183 Simplified Rubber with Damage
- 267 Eight Chain Rubber (will not be discussed)
- 269 Bergström Boyce Rubber (will not be discussed)

Material Data & Behavior Demonstration

Concluding Remarks

