The corpuscular particle method (CPM) is developed for airbag deployment simulation in LS-DYNA. In this method, the gas is modeled as a set of individual particles. The method could model the out-of-position (OOP) occupant interaction; it is simple, numerically robust, easier and faster than ALE. This course describes the corpuscular particle method (CPM) in LS-DYNA. It is compiled as a one-day training class, covering both background theory and practical usage of the method. The course is accompanied by a set of simple test models that help bringing insight into possibilities and limitations of the method.

Class Material:

A 30-day demo LS-DYNA license will be authorized, after the class, to continue your learning experience. Course Notes will be distributed the morning of the class.

Sections covered during the course

- Introduction
- Kinetic molecular theory
- LS-DYNA CPM approach
- LS-DYNA keyword
- Case studies

Class Information: Class Starts at 9AM. Lunch will be provided.