



Multi-body Dynamic simulation of Acti-Valve

Carl Cheng Ph.D.

Bjorksten | bit7, Inc., Madison, Wisconsin

G. E. Otto Widera Ph.D.

Center for Joining and Manufacturing Assembly
Marquette University, Milwaukee, Wisconsin

Abstract

A computer simulation of a valve (Acti-Valve), is generated using LS-DYNA. Fluid-structure interaction is considered in the Finite Element Analysis (FEA). The stress, displacement and pressure distributions are analyzed during the opening movement of the valve under 1000 psi line pressure.

Detailed paper is available at:

http://www.dynalook.com/documents/7th_International_ls-dyna/Session_4-2.pdf