

Stochastic Simulations for Crash Worthiness and Occupant Protection

Tsuyoshi Yasuki Ph.D.
Project general manager, Advanced CAE Division

Toyota Motor Corporation, Japan

Reduction of mass of vehicle is a high priority of design targets in automotive industries. To achieve the design targets, several quality control methods are employed in crashworthiness and occupant simulations by LS-DYNA at Toyota Motor Corporation. Some topics using quality control methods in the simulations including LS-TASC are introduced, and its effectiveness and limitations are discussed.