



Crash Analysis of Front Bumper of SUV Using Finite Element Analysis

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Finite element models were developed for components of the car and motorcycle. For geometric definition and mesh generation, IDEASTM was used. Static validation of component models against experimental data was also carried out in IDEASTM. The mesh was then exported and assembled in PAM/CRASHTM in order to validate and build the complete model of the car and the motorcycle under impact conditions. Material properties and the boundary conditions were defined in PAM/CRASHTM. Experimentally recorded curves of displacement, velocity and acceleration were compared against the values obtained by simulation. This helped in selecting the material properties of components where properties were not known otherwise and gave confidence in their fidelity. | Format: Paperback | Language/Sprache: english | 72 pp.

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