

Rail Vehicle Structure Modeling Using SIMPACK and its Validation

Anton Stribersky
Siemens SGP Verkehrstechnik GmbH
Vienna, Austria



Transportation Systems

Rail Vehicle Structure Modeling Using SIMPACK and its Validation

1. Introduction
2. The VPD System
3. Mathematical Modeling
4. Simulation Results
5. Experimental Results



Conclusions

1. Working with the VPD system saves time and cost.
2. Complex structural dynamics calculations have been automated.
3. The performance of the VPD system has been verified using vehicle components and full-vehicles.
4. The numerical results for the virtual metro vehicle are in a good agreement with measured data from a physical prototype train.

