



## Modeling And Simulation Of Dynamic Half Car Using Bond Graph

By Singh, Manoj Kumar / Singh, Bharat Raj

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Automobiles Continue to be Central Present Day Human Activities and Literature Exists on Their Evolution and Adaptation | In spite of the energy crisis, population and environment degradation issues, the use of automobiles has been going up. This call for continuing the efforts towards developing more efficient, environmentally friendly, safer and more controllable vehicles. This often translates into developing better models and increasing the use of onboard computers. The use of computers for control invariably requires models which execute faster and are reliable even in extreme conditions. Bond graph based techniques allow the development of continuously extensible models and easier integration with control systems. The present work deals with the development of the so called half car models using Bond graph based approaches to study the response of the vehicle while passing over a ramp or uneven surface. A successful compilation of the Bond graph on the Bond graph package Symbol Shakti shows that the model has been created with logical correctness. More extensive validation may be needed before it can be taken up for testing its utility for online control. | Format: Paperback | Language/Sprache: english | 104 pp.



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