变结构多刚体系统的动力学问题

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摘要　　本文深入地研究了多刚体系统结构变化的动力学问题, 建立下相应的数学模型, 讨论了有关的数字仿真, 并给出了一个算例, 结果是满意的, 对所论课题, 本文工作同以往相比更准确完整, 更便于计算机编程。

关键词　　多体动力学　数字仿真

分类号

ON THE DYNAMICS OF VARYING STRUCTURE SYSTEM OF RIGID BODIES

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Abstract

This paper has made a detailed study on the dynamics of varying structure system of rigid bodies, offered their mathematical models which are named as nominal, impact, perturbed and verifying equations, discussed the simulation and given an applied example with satisfactory results. Modeling is based on Direct Path Method. The models and methods of this paper are more accurate, more complete and easier to program than most former ones on this topic.

Key words　multibody dynamics　simulation

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通讯作者

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