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FINITE ELEMENT ANALYSIS OF ELECTROSTATICCOUPLED SYSTEMS



Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Using GeometricallyNonlinear Mixed Assumed Stress FiniteElements | Multi-physics coupled fields are often present in MEMS. This makes the modeling and analysis of such devices difficult and sometimes costly. The coupling between electrostatic and mechanical fields in MEMS is one of the most common and fundamental phenomena in MEMS; it is this configuration that is studied in this thesis. The following issues are addressed: 1. The finite element method (FEM) is therefore used...

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