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Numerical Simulation of Mechatronic Sensors and Actuators

The focus of this book is concerned with the modelling and precise numerical simulation of mechatronic sensors and actuators. These sensors, actuators, and sensor-actuator systems are based on the mutual interaction of the mechanical field with a magnetic, an electrostatic, or an electromagnetic field.

Numerical Simulation Of Mechatronic Sensors And Actuators

Like the previous editions also the third edition of this book combines the detailed physical modeling of mechatronic systems and their precise numerical simulation using the Finite Element (FE) method.

Numerical Simulation of Mechatronic Sensors and Actuators

The second edition of this book fully preserves the character of the first edition to combine the detailed physical modeling of mechatronic systems and their precise numerical simulation using the Finite Element (FE) method.

Numerical Simulation of Mechatronic Sensors and Actuators

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operator-based model (see Sect. 14.4); (2) simulation of the human phonation (see Sect. 14.7); (3) flow induced sound of obstacles in cross flow, edge tone and airframe noise (see Sect. 14.8).

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Numerical Simulation of Mechatronic Sensors and Actuators

Numerical Simulation of Mechatronic Sensors and Actuators Manfred Kaltenbacher Department of Sensor Technology Friedrich-Alexander-University, Erlangen-Nuremberg, Germany Figure 1: Piezoelectric force sensor with a charge amplifier Figure 2: Piezoelectric actuator (bimorph setup) 1

Numerical Simulation of Mechatronic Sensors and Actuators

phases that kind of simulation can be used to reduce the number of hardware tests. The simulation can be

validated by tests, and parameter studies can be done in numerical simulation without great effort like hardware tests cause. This kind of design process can be used e.g. for the development of active, adaptive restraint systems.

Dynamic Simulation of Mechatronic Systems

Numerical Simulation of Mechatronic Sensors and Actuators Manfred Kaltenbacher A large amount of the total noise in our daily lives is generated by turbulent flows (e.g., airplanes, cars, air ...

Numerical simulation of mechatronic sensors and actuators

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Numerical Solution of Mechatronic Sensors and Actuators

to combine the detailed physical modelling of mechatronic systems and their precise numerical simulation using the Finite Element (FE) method. Most of the text and general appearance of the previous edition were retained, while the coverage was extended and the presentation improved.

ManfredKaltenbacher - WordPress.com

NPTEL "Mechanical" Mechatronics and Manufacturing Automation Joint initiative of IITs and IISc "Funded by MHRD Page 8 of 17 The input to the system is a force which can be sensed by suitable electro-mechanical sensors viz. piezoelectric device or strain gauges.

Mechatronics and Manufacturing Automation - NPTEL

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