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Mechanical systems, classical models. Analytical mechanics

For deformable continuous media (in opposition to what – usually – is called general mechanics, containing classical models of mechanics) it is necessary a separate study; the mathematical models of such mechanical systems must be completed either they are classical models or non-classical ones.

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Mechanical Systems, Classical Models Volume II: Mechanics of Discrete and Continuous Systems by Petre P. Teodorescu Faculty of Mathematics, University of Bucharest, Romania Springer . Contents Preface vii 11. Dynamics of Discrete Mechanical Systems 1 11.1 Dynamics of Discrete Mechanical Systems with Respect to an Inertial Frame of Reference 1 ...

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The non-classical models are relativistic and quantic. Mechanics has as object of study mechanical systems. The first volume of this book dealt with particle dynamics. The present one deals with discrete mechanical systems for particles in a number greater than the unity, as well as with continuous mechanical systems.

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