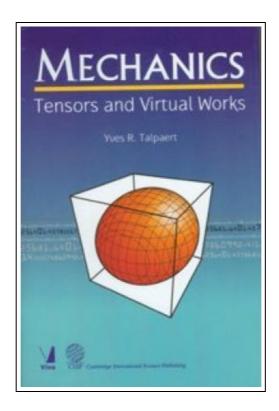
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Reviews

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MECHANICS (TENSORS AND VIRTUAL WORKS)



Viva Books Private Limited, 2008. Hardcover. Book Condition: New. First edition. Mechanics, Tensors & Virtual Works is designated to be used for a first one-semester course in Mechanics at the upper undergraduate level. It is intended for third year students in mathematics, physics and engineering. Most of the text comes from this level courses that the author taught at universities and engineering schools. In the particular case where such a course cannot be taught to engineers, a lot of introduced matters constitute the mathematical and mechanical bases of applied engineering mechanics. The various chapters connect the notions of mechanics of first and second year with the ones which are developed in more specialized subjects as continuum mechanics at first, and fluid-dynamics, quantum mechanics, special relativity, general relativity, electromagnetism, stellar dynamics, celestial mechanics, meteorology, applied differential geometry, and so on. Mechanics, Tensors and Virtual Works is designed for the second part of an intermediate course in mechanics at the undergraduate level in mathematics and physics, and engineering too. Given its high level of pedagogy and numerous solved problems, this is also suitable for self-taught people having a background of theoretical mechanics. This course of Analytical Mechanics is the ideal mathematical and mechanical preparation for physics disciplines as continuum mechanics, fluid-dynamics, special relativity, general relativity, celestial mechanics, quantum mechanics?? The Virtual Work methods in Static and Tensors are introduced mathematical "tools" which give the mechanics treated subjects a great unity. So, Mass Geometry, Inertia Tensor, Kinetics and Dynamics of Systems are developed in the tensor context. The intensive use of the tensor calculus (with dual space, canonical isomorphism, exterior algebra, metric, covariant derivatives, volume form and adjoint, differential operations,?) contributes to reduce the gap between first and second academic cycles. Compiling da



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