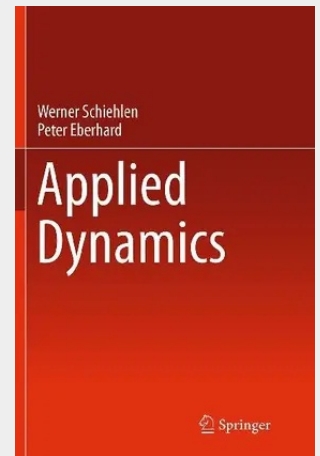


Applied Dynamics

Applied Dynamics is an important branch of engineering mechanics widely applied to mechanical and automotive engineering, aerospace and biomechanics as well as control engineering and mechatronics. The computational methods presented are based on common fundamentals. For this purpose analytical mechanics turns out to be very useful where D'Alembert's principle in the Lagrangian formulation proves to be most efficient. The method of multibody systems, finite element systems and continuous systems are treated consistently. Thus, students get a much better understanding of dynamical phenomena, and engineers in design and development departments using computer codes may check the results more easily by choosing models of different complexity for vibration and stress analysis.

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53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783319374574

Medium: Buch

ISBN: 978-3-319-37457-4

Verlag: Springer

Erscheinungstermin: 10.09.2016

Sprache(n): Englisch

Auflage: Softcover Nachdruck of the original 1. Auflage 2014

Produktform: Kartoniert

Gewicht: 3518 g

Seiten: 215

Format (B x H): 155 x 235 mm

