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Practical Stress Analysis in Engineering Design

Updated and revised, this book presents the application of engineering design and analysis based on the approach of understanding the physical characteristics of a given problem and then modeling the important aspects of the physical system. This third edition provides coverage of new topics including contact stress analysis, singularity functions, gear stresses, fasteners, shafts, and shaft stresses. It introduces finite element methods as well as boundary element methods and also features worked examples, problems, and a section on the finite difference method and applications. This text is suitable for undergraduate and graduate students in mechanical, civil, and aerospace engineering.

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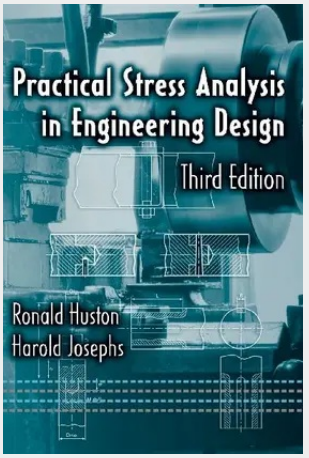

296,50 €
296,50 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781574447132
Medium: Buch
ISBN: 978-1-57444-713-2
Verlag: CRC Press
Erscheinungstermin: 17.12.2008
Sprache(n): Englisch
Auflage: 3. Auflage 2008
Serie: Mechanical Engineering
Produktform: Gebunden
Gewicht: 1362 g
Seiten: 664
Format (B x H): 183 x 260 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)