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Mechanics of Materials For Dummies

By James H. Allen

John Wiley and Sons Ltd. Paperback. Book Condition: new. BRAND NEW, Mechanics of Materials For Dummies, James H. Allen, Your ticket to excelling in mechanics of materials With roots in physics and mathematics, engineering mechanics is the basis of all the mechanical sciences: civil engineering, materials science and engineering, mechanical engineering, and aeronautical and aerospace engineering. Tracking a typical undergraduate course, Mechanics of Materials For Dummies gives you a thorough introduction to this foundational subject. You'll get clear, plain-English explanations of all the topics covered, including principles of equilibrium, geometric compatibility, and material behavior; stress and its relation to force and movement; strain and its relation to displacement; elasticity and plasticity; fatigue and fracture; failure modes; application to simple engineering structures, and more. * Tracks to a course that is a prerequisite for most engineering majors * Covers key mechanics concepts, summaries of useful equations, and helpful tips From geometric principles to solving complex equations, Mechanics of Materials For Dummies is an invaluable resource for engineering students!.



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