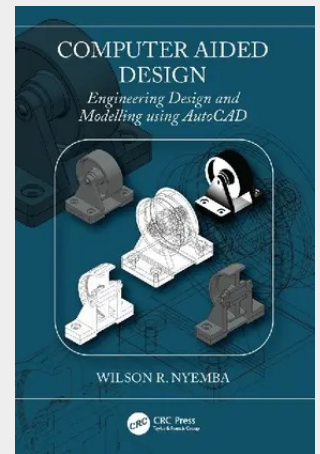


Computer Aided Design

Engineering Design and Modeling using AutoCAD

The book comprehensively discusses principles, techniques, research activities, applications and case studies of computer-aided design in a single volume. The textbook will serve as ideal study material for undergraduate, and graduate students in a multitude of engineering disciplines. The book: - Discusses techniques for wireframe, surface and solid modelling including practical cases and limitations - Each chapter contains solved examples and unsolved exercises - Includes research case studies and practical examples in enabling the user to link academic theory to engineering practice - Highlights the ability to convert graphic to non-graphic information such as in drawing up bills of materials in practice - Discusses important topics including constructive solid geometry, Boolean operations on solid primitives and Boolean algebra This text covers different aspects of computer-aided design, from the basic two-dimensional constructions through modifications, use of layers and dimensioning to advanced aspects such as three-dimensional modelling and customization of the package to suit different applications and disciplines. It further discusses important concepts including orthographic projections, isometric projections, 3D wireframe modelling, 3D surface modelling, solids of extrusion and solids of revolution. It will serve as ideal study material for undergraduate, and graduate students in the fields of mechanical engineering, industrial engineering, electrical and electronic engineering, civil and construction engineering, aerospace engineering and manufacturing engineering.

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