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This book will offer a quick overview of the most cutting-edge uses of the computer in engineering design, 'virtual testing', and 'virtual applications'. The readers will find clearly illustrated, well-documented case examples that help to bring the abstractions of computer simulation to meaningful practical reality. Contributing authors from a wide variety of engineering disciplines - from both academia and industry - will bring a full perspective to what is new in the use of computer-based engineering design. The readers will find: new case studies on Virtual Prototyping, Virtual Reality training systems; industrial maintenance, and virtual design for biomedical applications; breaking new developments on using touch-based computer tools like the 'virtual movement' glove; and a novel study on use of Virtual Engineering for globally dispersed engineering teams on collaborative projects.