

图书基本信息

书名：<<智能材料在结构健康监测控制及生物力学中的应用>>

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内容概要

Smart Materials in Structural Health Monitoring, Control and Biomechanics presents the latest developments in structural health monitoring, vibration control and biomechanics using smart materials. The book mainly focuses on piezoelectric, fibre optic and ionic polymer metal composite materials. It introduces concepts from the very basics and leads to advanced modelling (analytical/numerical), practical aspects (including software/hardware issues) and case studies spanning civil, mechanical and aerospace structures, including bridges, rocks and underground structures. This book is intended for practicing engineers, researchers from academic and R&D institutions and postgraduate students in the fields of smart materials and structures, structural health monitoring, vibration control and biomedical engineering.

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