



Intelligent Structural Systems

By G. L. Anderson

Springer Jul 1992, 1992. Buch. Book Condition: Neu. 235x155x30 mm. This item is printed on demand - Print on Demand Titel. - The study of 'intelligent (smart) structures and systems' is emerging as a new research area that is multi-disciplinary in nature, requiring technical expertise from mechanical engineering, structural engineering, electrical engineering, applied mechanics, engineering mathematics, material science, computer science, biological science, etc. This technology is quite likely to contribute significantly to advances in the design of high-performance structures, adaptive structures, high-precision systems, microsystems, etc. This volume contains specially invited contributions to state-of-the-art research in the evolution of intelligent (smart) structures and systems. Topics include: current intelligent (smart) structures research activities, piezoelectric structures, shape memory alloy reinforced composites, applications of electrorheological fluids, intelligent sensor systems, adaptive precision trusses, damage detection, model reinforcement, control of axial moving continua, distributed transducers, etc. 468 pp. Englisch.



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