

Bounding Uncertainty in Civil Engineering

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Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me). (Myrl Hintz)

BOUNDING UNCERTAINTY IN CIVIL ENGINEERING



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Springer-Verlag Gmbh Mrz 2010, 2010. Buch. Condition: Neu. Neuware - In engineering contexts, random sets are useful when there is scarce or imprecise information as well as when a model for the engineering system is imprecise (e.g., discretization errors, different competing models, upper and lower bounds in limit analysis). Random sets generalize the concept of random variables from point measures to set measures; equivalently, they embody a convex set of probability measures. Taking an engineering approach rather than a mathematical one, Random Sets in Civil Engineering is a gentle introduction to the subject that does not require advanced mathematical knowledge. Basic ideas and methods are presented and demonstrated with the aid of simple worked-out examples and suggested problems. Connections are clarified to the more general theory of imprecise probabilities and to other non classical models of uncertainty and approximate reasoning in decision making (e.g., fuzzy sets and evidence theory). The book serves as a reference for practicing engineers involved in planning, design, construction and management of civil infrastructures, as well as a graduate-level textbook. Readers interested in uncertainty modelling will find general solutions and algorithms, which may also be applied to problems in other fields beyond engineering. In the second volume of the book (to be planned in the future), the application of the new methods is demonstrated for selected examples with real case-histories from civil engineering: reliability analysis of structures, soil and rock slopes, rock mass characterization, optimization of tunnel reinforcement and lining, evaluation of seismic vulnerability of buildings and damage scenarios in urban areas. 350 pp. Englisch.

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