

Structural Reliability Theory and Its Applications

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STRUCTURAL RELIABILITY THEORY AND ITS APPLICATIONS



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Condition: New. Publisher/Verlag: Springer, Berlin | Structural reliability theory is concerned with the rational treatment of uncertainties in struc tural engineering and with the methods for assessing the safety and serviceability of civil engineering and other structures. It is a subject which has grown rapidly during the last decade and has evolved from being a topic for academic research to a set of well-developed or develop ing methodologies with a wide range of practical applications. Uncertainties exist in most areas of civil and structural engineeri'1.g and rational design decisions cannot be made without modelling them and taking them into account. Many structural engineers are shielded from having to think about such problems, at least when designing simple structures, because of the prescriptive and essentially deterministic nature of most codes of practice. This is an undesirable situation. Most loads and other structural design parameters are rarely known with certainty and should be regarded as random variables or stochastic processes, even if in design calculations they are eventually treated as deterministic. Some problems such as the analysis of load combinations cannot even be formulated without recourse to probabilistic reasoning. | '1. The Treatment of Uncertainties in Structural Engineering.- 1.1 Introduction.- 1.1.1 Current risk levels,.- 1.1.2 Structural codes,.- 1.2 Uncertainty.- 1.2.1 General,.- 1.2.2 Basic variables,.- 1.2.3 Types of uncertainty,- 1.3 Structural Reliability Analysis and Safety Checking,- 1.3.1 Structural reliability.- 1.3.2 Methods of safety checking,- 2.5 Moments.- 2.6 Univariate Distributions.- 2.7 Random Vectors.- 2.8 Conditional Distributions.- 2.9 Functions of Random Variables.- 3. Probabilistic Models for Loads and Resistance Variables.- 3.1 Introduction.- 3.2 Statistical Theory Of Extremes.- 3.2.1 Derivation of the cumulative distribution of the ith smallest value of n identically distributed independent...

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