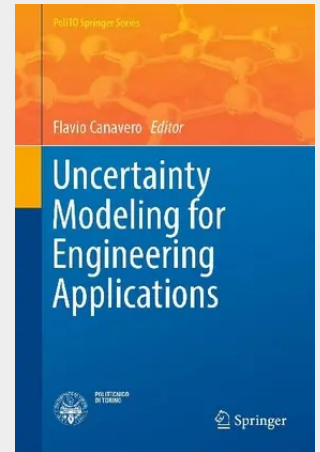


Uncertainty Modeling for Engineering Applications

This book provides an overview of state-of-the-art uncertainty quantification (UQ) methodologies and applications, and covers a wide range of current research, future challenges and applications in various domains, such as aerospace and mechanical applications, structure health and seismic hazard, electromagnetic energy (its impact on systems and humans) and global environmental state change. Written by leading international experts from different fields, the book demonstrates the unifying property of UQ theme that can be profitably adopted to solve problems of different domains. The collection in one place of different methodologies for different applications has the great value of stimulating the cross-fertilization and alleviate the language barrier among areas sharing a common background of mathematical modeling for problem solution. The book is designed for researchers, professionals and graduate students interested in quantitatively assessing the effects of uncertainties in their fields of application. The contents build upon the workshop "Uncertainty Modeling for Engineering Applications" (UMEMA 2017), held in Torino, Italy in November 2017.

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106,99 €

99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783030048693

Medium: Buch

ISBN: 978-3-030-04869-3

Verlag: Springer

Erscheinungstermin: 16.01.2019

Sprache(n): Englisch

Auflage: 1. Auflage 2019

Serie: PoliTO Springer Series

Produktform: Gebunden

Gewicht: 494 g

Seiten: 184

Format (B x H): 160 x 241 mm

