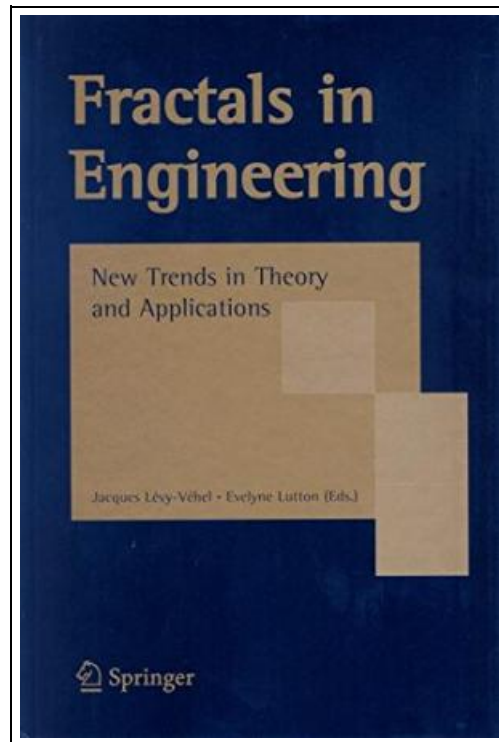


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Springer London Ltd, United Kingdom, 2006. Hardback. Condition: New. 2005 ed.. Language: English . This book usually ship within 10-15 business days and we will endeavor to dispatch orders quicker than this where possible. Brand New Book. This volume is a sequel to the books *Fractals: Theory and Applications in Engineering* (Springer-Verlag, 1999) and *Fractals in Engineering. From Theory to Industrial Applications* (Springer-Verlag, 1997), presenting some of the most recent advances in the field. It is a fascinating exercise to follow the progress of knowledge in this interdisciplinary area, as witnessed by these three volumes. First, confirming previous trends observed in 1997 and 1999, applied mathematical research on fractals has now reached a mature level, where beautiful theories are developed in direct contact with engineering concerns. The four papers in the Mathematical Aspects section constitute valuable additions to the set of tools needed by the engineer: Synthetic pictures modelling and rendering in computer graphics (*Theory and Applications of Fractal Tops*, by Michael Barnsley), curve approximation and fractal B-splines (*Splines, Fractal Functions, and Besov and Triebel-Lizorkin Spaces*, by Peter Massup), deep understanding of the Holmerian properties of certain stochastic processes useful in a large number of applications (*Holmerian random functions*, by Antoine Ayache et al. ), and study of the invariant measure of a coupled discrete dynamical system (*Fractal Stationary Density in Coupled Maps*, by Jürgen Jost et al. ). The second section of the book describes novel physical applications as well as recent progress on more classical ones. The paper *A Network of Fractal Force Chains and Their Effect in Granular Materials under Compression* by Luis E. Vallejo et al.



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