



Leichtbau mit Magnesiumlegierungen im Automobilbau: Charakterisierung der korrosiven Belastung durch Streusalzkomponenten und Auslegung des Korrosionsschützes

By Michael Grabowski

FAU University Press Sep 2016, 2016. Taschenbuch. Condition: Neu. Neuware - From the large-scale structure of the universe to exotic states in nuclear matter: random or disordered spatial structures appear on nearly all length scales in very different physical, chemical, or biological systems. In systems with complex structure, there is often a close interconnection of physics and geometry, and physical insight is often best achieved by a rigorous characterization of the structure. This thesis demonstrates how a family of integral geometric shape descriptors, the so-called Minkowski functionals and tensors, provide an intuitive and versatile morphometric analysis. It sensitively and comprehensively describes the geometry in diverse systems on radically different length scales. The morphometric analysis is refined and applied to mathematical models and simulations of physical systems as well as experimental data sets. For example, the structures appearing in models from stochastic geometry are examined with a particular emphasis on anisotropy. In one of these models, the Minkowski functionals help to better understand and predict a geometrical phase transition. Moreover, a structural characterization across length scales of a physical model, which consists of hard particles, reveals how systems with similar local configurations can nevertheless exhibit a distinctly different global structure. On extremely...



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