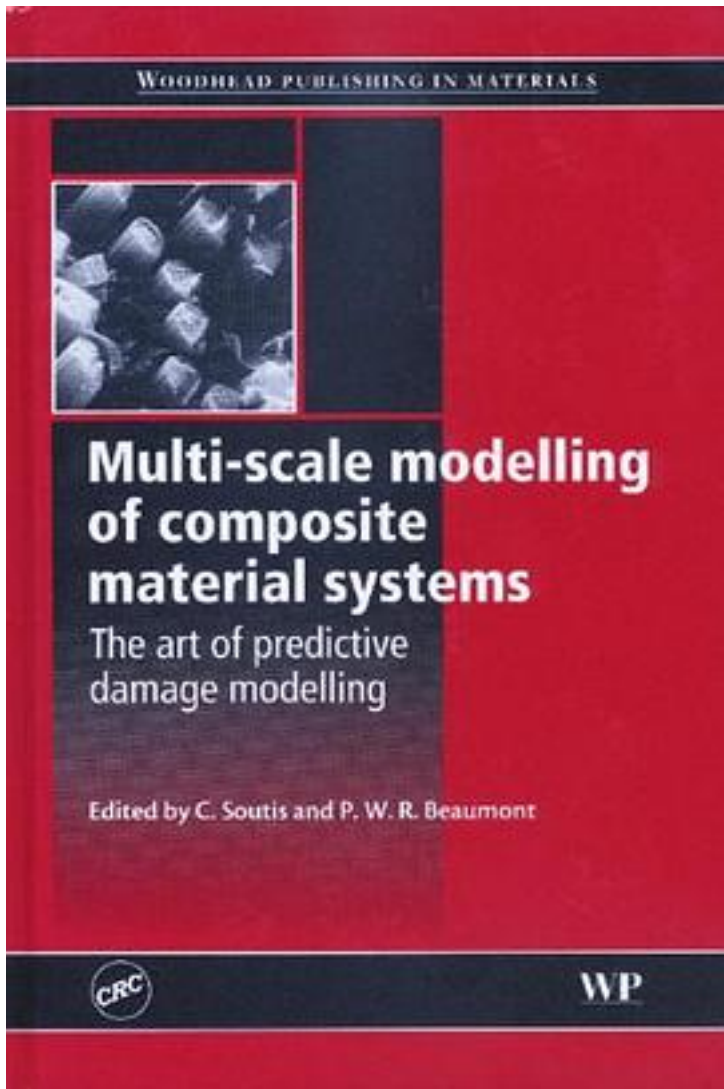


# Multi-Scale Modelling of Composite Materials Systems



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Reviewing key research and its implications, "Multi-Scale Modeling of Composite Material Systems" covers modeling approaches ranging from the micron to the meter in scale, from the single fiber to complete composite structures. This book discusses a variety of material types from laminates and fiber-reinforced composites to monolithic and sandwich composites. It analyzes a range of stress types and stress responses, including fracture, impact, wear, cracking, and fatigue. The authors explore the strengths and weaknesses of each particular model, and discuss reinforcement alternatives via stitching and z-pinning. With contributions from a team of international experts, this is a valuable reference for professionals in the aerospace, automotive, and civil engineering industries.

作者介绍:

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