

Mathematical Modelling for Materials Processing (The Institute of Mathematics and its Applications Conference Series, New Series)



Mathematical modelling plays a key role in the design, analysis, optimization, and control of material processing technologies and is practiced by an increasingly interdisciplinary field of professionals, including materials scientists, process technologists, and applied mathematicians. This book collects a number of practical and theoretical contributions from distinguished representatives of all areas of mathematical modelling--from researchers who develop models of the microstructural changes that occur during forming to the developers of algorithms and codes as simulation tools to those who employ such models and tools in an industrial context. The book is an essential addition to the libraries of applied mathematicians and materials scientists.

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