

Pattern Formation at Interfaces

The book deals with modern methods of nonlinear stability theory applied to problems of continuous media mechanics in the presence of interfaces, with applications to materials science, chemical engineering, heat transfer technologies, as well as in combustion and other reaction-diffusion systems. Interfaces play a dominant role at small scales, and their correct modeling is therefore also crucial in the rapidly expanding fields of microfluidics and nanotechnologies. To this aim, the book combines contributions of eminent specialists in the field, with a special emphasis on rigorous and predictive approaches. Other goals of this volume are to allow the reader to identify key problems of high scientific value, and to see the similarity between a variety of seemingly different physical problems.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783709111017

Medium: Buch

ISBN: 978-3-7091-1101-7

Verlag: Springer

Erscheinungstermin: 01.03.2012

Sprache(n): Englisch

Auflage: 1. Auflage 2012

Serie: CISM International Centre for Mechanical Sciences

Produktform: Kartoniert

Gewicht: 476 g

Seiten: 304

Format (B x H): 155 x 235 mm

