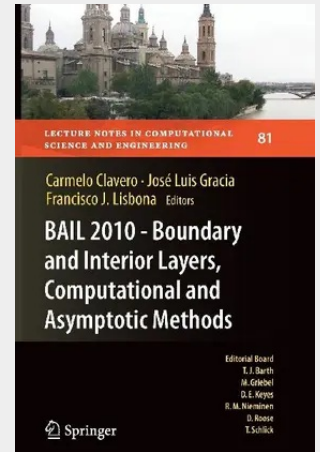


BAIL 2010 - Boundary and Interior Layers, Computational and Asymptotic Methods

This volume will contain selected papers from the lectures held at the BAIL 2010 Conference, which took place from July 5th to 9th, 2010 in Zaragoza (Spain). The papers present significant advances in the modeling, analysis and construction of efficient numerical methods to solve boundary and interior layers appearing in singular perturbation problems. Special emphasis is put on the mathematical foundations of such methods and their application to physical models. Topics in scientific fields such as fluid dynamics, quantum mechanics, semiconductor modeling, control theory, elasticity, chemical reactor theory, and porous media are examined in detail.

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106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783642268236
Medium: Buch
ISBN: 978-3-642-26823-6
Verlag: Springer
Erscheinungstermin: 15.07.2013
Sprache(n): Englisch
Auflage: 1. Auflage 2013
Serie: Lecture Notes in Computational Science and Engineering
Produktform: Kartoniert
Gewicht: 423 g
Seiten: 262
Format (B x H): 155 x 235 mm

