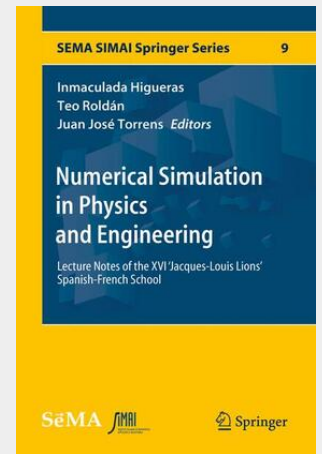


## Numerical Simulation in Physics and Engineering

Lecture Notes of the XVI 'Jacques-Louis Lions' Spanish-French School

This book presents lecture notes from the XVI 'Jacques-Louis Lions' Spanish-French School on Numerical Simulation in Physics and Engineering, held in Pamplona (Navarra, Spain) in September 2014. The subjects covered include: numerical analysis of isogeometric methods, convolution quadrature for wave simulations, mathematical methods in image processing and computer vision, modeling and optimization techniques in food processes, bio-processes and bio-systems, and GPU computing for numerical simulation. The book is highly recommended to graduate students in Engineering or Science who want to focus on numerical simulation, either as a research topic or in the field of industrial applications. It can also benefit senior researchers and technicians working in industry who are interested in the use of state-of-the-art numerical techniques in the fields addressed here. Moreover, the book can be used as a textbook for master courses in Mathematics, Physics, or Engineering.

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**106,99 €**

99,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9783319321455

**Medium:** Buch

**ISBN:** 978-3-319-32145-5

**Verlag:** Springer International Publishing

**Erscheinungstermin:** 11.07.2016

**Sprache(n):** Englisch

**Auflage:** 1. Auflage 2016

**Serie:** SEMA SIMAI Springer Series

**Produktform:** Gebunden

**Gewicht:** 5207 g

**Seiten:** 251

**Format (B x H):** 160 x 241 mm

