



2005, VII, 331 p.

Printed book

Softcover

- ▶ 159,99 € | £139.99 | \$199.99
- ▶ *171,19 € (D) | 175,99 € (A) | CHF 189.00

eBook

Available from your library or

- ▶ springer.com/shop

MyCopy

Printed eBook for just

- ▶ € | \$ 24.99
- ▶ springer.com/mycopy

L. Dormieux, F.-J. Ulm (Eds.)

Applied Micromechanics of Porous Materials

Series: CISM International Centre for Mechanical Sciences, Number 480

Poromechanics is the mechanics of porous materials and is now a well established field in many engineering disciplines, ranging from Civil Engineering, Geophysics, Petroleum Engineering to Bioengineering. However, a rigorous approach that links the physics of the phenomena at stake in porous materials and the macroscopic behaviour is still missing. This book presents such an approach by means of homogenization techniques. Rigorously founded in various theories of micromechanics, these up scaling techniques are developed for the homogenization of transport properties, stiffness and strength properties of porous materials.

The special feature of this book is the balance between theory and application, providing the reader with a comprehensive introduction to state-of-the-art homogenization theories and applications to a large range of real life porous materials: concrete, rocks, shales, bones, etc.



Order online at springer.com ▶ or for the Americas call (toll free) 1-800-SPRINGER ▶ or email us at: customerservice@springer.com. ▶ For outside the Americas call +49 (0) 6221-345-4301 ▶ or email us at: customerservice@springer.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with * include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with ** include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted.