



2015, XII, 257 p. 78 illus.

#### Printed book

Hardcover

139,99 € | £119.99 | \$169.99

<sup>[1]</sup>149,79 € (D) | 153,99 € (A) | CHF  
165,50

Softcover

102,79 € | £89.99 | \$129.99

<sup>[1]</sup>109,99 € (D) | 113,07 € (A) | CHF  
121,50

#### eBook

85,59 € | £71.50 | \$99.00

<sup>[2]</sup>85,59 € (D) | 85,59 € (A) | CHF  
97,00

Available from your library or  
[springer.com/shop](http://springer.com/shop)

#### MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](http://springer.com/mycopy)

Sergio Conti, Klaus Hackl (Eds.)

# Analysis and Computation of Microstructure in Finite Plasticity

Series: Lecture Notes in Applied and Computational Mechanics

- Fosters fundamental understanding of the physical origin, the mathematical behavior and the numerical treatment of models which include microstructure
- Covers all length scales, from the atomic structure up to macroscopic samples
- Presents efforts of leading scientists

This book addresses the need for a fundamental understanding of the physical origin, the mathematical behavior and the numerical treatment of models which include microstructure. Leading scientists present their efforts involving mathematical analysis, numerical analysis, computational mechanics, material modelling and experiment. The mathematical analyses are based on methods from the calculus of variations, while in the numerical implementation global optimization algorithms play a central role. The modeling covers all length scales, from the atomic structure up to macroscopic samples. The development of the models were guided by experiments on single and polycrystals and results will be checked against experimental data.

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

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] 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. [3] No discount for MyCopy.

