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Autore	Bernacki Marc
Titolo	Digital Materials : Continuum Numerical Methods at the Mesoscopic Scale
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2025
ISBN	9781394332472 1394332475 9781394332489 1394332483 9781394332465 1394332467
Edizione	[1st ed.]
Descrizione fisica	1 online resource (312 pages)
Altri autori (Persone)	ForestSamuel
Soggetti	Materials science Numerical analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1. Dislocation-based Mechanics: The Various Contributions of Dislocation Dynamics Simulations -- 1.1. Introduction -- 1.2. Overview of discrete dislocation dynamics -- 1.2.1. Initial configurations and periodic boundary conditions -- 1.2.2. Mobility functions -- 1.2.3. Forces on dislocations -- 1.2.4. Topological changes -- 1.2.5. Boundary conditions -- 1.3. Mesoscale plasticity -- 1.3.1. Forest interactions -- 1.3.2. Statistical investigations of dislocation mechanisms -- 1.3.3. Lattice friction -- 1.3.4. Combination of multiple strengthening mechanisms -- 1.3.5. Toward polycrystalline plasticity -- 1.3.6. Cyclic deformations -- 1.4. Conclusion and future work -- 1.5. Acknowledgments -- 1.6. References -- Chapter 2. Statistical Approach to the Representative Volume Element Size of Random Composites -- 2.1. Introduction -- 2.2. Elements of numerical homogenization of heterogeneous media -- 2.2.1. Examples of physical properties of heterogeneous media --

	2.2.2. Change of scale in heterogeneous media -- 2.2.3. Principle of calculation of apparent properties -- 2.2.4. Homogenization of random media by numerical simulations
Sommario/riassunto	This book, coordinated by Marc Bernacki and Samuel Forest, delves into digital materials science, focusing on numerical methods at the mesoscopic scale. It explores various topics including mechanics, dislocation dynamics simulations, statistical approaches to random composites, and analytical methods for composites and polycrystals. The authors aim to advance understanding in the field of materials mechanics by discussing discrete dislocation dynamics, mesoscale plasticity, and statistical definitions of representative volume elements. The book is intended for researchers and practitioners in the field of materials science and engineering, providing insights into the mathematical and computational modeling of material behavior.

2.

Record Nr.	UNINA9910524693303321
Autore	Warner Sam Bass <1928-2023, >
Titolo	To Dwell Is to Garden : A History of Boston's Community Gardens / / Sam Bass Warner, Jr. ; photographs by Hansi Durlach ; [new foreword by Jill Eshelman]
Pubbl/distr/stampa	Northeastern University Press
Descrizione fisica	1 online resource (1 online resource xvii, 128 pages) : illustrations, portraits
Soggetti	Vegetable gardening Gardeners Community gardens Vegetable gardening - Massachusetts - Boston Gardeners - Massachusetts - Boston Community gardens - Massachusetts - Boston Community gardens - History Community gardens - Massachusetts - Boston - History Pictorial works. History Massachusetts Boston
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"With portraits and reflections of Boston's gardeners in a portfolio by Hansi Durlach"--Cover. Reprint of 1987 edition with new foreword.
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	One of the more welcome changes in Boston's urban landscape has been the recent transformation of abandoned lots in to flourishing community gardens. In To Dwell Is to Garden, a distinguished scholar and a veteran photographer join forces to provide a history and a celebration of these urban oases and of the people who have made them possible. Sam Bass Warner, Jr., traces the origins of Boston's urban community gardens back to the English allotment gardens created to keep country folk from starving during the first great wave of urbanization. Warner suggests that today's urban community gardens owe their existence not to philanthropy or patriotism but to an activist impulse stemming from the civil rights movement, which emphasized self-help, local autonomy, and personal dignity to combat the problems of urban decay. The spirit of today's urban community gardens is captured in Hansi Durlach's compelling photographs of those individuals, young and old, who have worked together to clear the rubble and till the soil. From China and Chile, from Italy and Arkansas, from the suburbs and from next door, their comments, recorded by Durlach, linger in the mind and in the heart. Originally published by Northeastern University Press in 1987. With a new foreword by Jill Eshelman.