

1. Record Nr.	UNINA990000067660403321
Autore	Di Matteo, Vittorio
Titolo	La defosforazione della ghisa al trasformatore Bessemer / Vittorio Di Matteo
Pubbl/distr/stampa	Napoli : Stabilimento tipografico Salvati, 1883
Descrizione fisica	86 p., 1 tav. : ill. ; 26 cm
Disciplina	669.141
Locazione	FINBC
Collocazione	13 AR 24 C 14
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910132269503321
Autore	Jebahi Mohamed
Titolo	Discrete element model and simulation of continuous materials behavior set . Volume 1 Discrete element method to model 3D continuous materials // Mohamed Jebahi [and three others]
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : iSTE : , : Wiley, , 2015 ©2015
ISBN	1-119-10275-8 1-119-10304-5 1-119-10291-X
Descrizione fisica	1 online resource (198 p.)
Collana	Numerical Methods in Engineering Series
Disciplina	620.11015118
Soggetti	Materials - Mathematical models Discrete element method
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.

Cover; Title Page; Copyright; Contents; List of Figures; List of Tables; Preface; Introduction; 1.1. Toward discrete element modeling of continuous materials; 1.2. Scope and objective; 1.3. Organization; 1: State of the Art: Discrete Element Modeling; 1.1. Introduction; 1.2. Classification of discrete methods; 1.2.1. Quantum mechanical methods; 1.2.2. Atomistic methods; 1.2.3. Mesoscopic discrete methods; 1.2.3.1. Lattice methods; 1.2.3.2. Smooth contact particle methods; 1.2.3.3. Non-smooth contact particle models; 1.2.3.4. Hybrid lattice-particle models
1.3. Discrete element method for continuous materials
1.4. Discrete-continuum transition: macroscopic variables; 1.4.1. Stress tensor for discrete systems; 1.4.2. Strain tensor for discrete systems; 1.4.2.1. Equivalent continuum strains; 1.4.2.2. Best-fit strains; 1.4.2.3. Satake strain; 1.5. Conclusion; 2: Discrete Element Modeling of Mechanical Behavior of Continuous Materials; 2.1. Introduction; 2.2. Explicit dynamic algorithm; 2.3. Construction of the discrete domain; 2.3.1. The cooker compaction algorithm; 2.3.1.1. Stopping criterion of compaction process; 2.3.1.2. Filling process
2.3.1.3. Overlapping removing
2.3.2. Geometrical characterization of the discrete domain; 2.3.2.1. Geometrical isotropy and granulometry; 2.3.2.2. Average coordination number; 2.3.2.3. Discrete domain fineness; 2.4. Mechanical behavior modeling; 2.4.1. Cohesive beam model; 2.4.1.1. Analytical model; 2.4.1.2. Strain energy computation; 2.4.2. Calibration of the cohesive beam static parameters; 2.4.2.1. Quasistatic tensile test description; 2.4.2.1.1. From discrete to continuous geometry; 2.4.2.1.2. Loading; 2.4.2.1.3. EM and M computation; 2.4.2.2. Parametric study
2.4.2.2.1. Microscopic Poisson's ratio influence
2.4.2.2.2. Microscopic Young's modulus influence; 2.4.2.2.3. Microscopic radius ratio influence; 2.4.2.3. Calibration method for static parameters; 2.4.2.4. Convergence study; 2.4.2.5. Validation; 2.4.3. Calibration of the cohesive beam dynamic parameters; 2.4.3.1. Calibration method for dynamic parameters; 2.4.3.2. Validation; 2.5. Conclusion; 3: Discrete Element Modeling of Thermal Behavior of Continuous Materials; 3.1. Introduction; 3.2. General description of the method; 3.2.1. Characterization of field variable variation in discrete domain
3.2.2. Application to heat conduction
3.3. Thermal conduction in 3D ordered discrete domains; 3.4. Thermal conduction in 3D disordered discrete domains; 3.4.1. Determination of local parameters for each discrete element; 3.4.2. Calculation of discrete element transmission surface; 3.4.3. Calculation of local volume fraction; 3.4.4. Interactions between each discrete element and its neighbors; 3.5. Validation; 3.5.1. Cylindrical beam in contact with a hot plane; 3.5.2. Dynamically heated sheet; 3.6. Conclusion; 4: Discrete Element Modeling of Brittle Fracture; 4.1. Introduction
4.2. Fracture model based on the cohesive beam bonds

Complex behavior models (plasticity, cracks, visco elasticity) face some theoretical difficulties for the determination of the behavior law at the continuous scale. When homogenization fails to give the right behavior law, a solution is to simulate the material at a meso scale in order to simulate directly a set of discrete properties that are responsible of the macroscopic behavior. The discrete element model has been developed for granular material. The proposed set shows how this method is capable to solve the problem of complex behavior that are linked to discrete meso scale effects.

3. Record Nr.	UNINA9910812858303321
Autore	Kutcher Jeffrey S.
Titolo	Back in the game : why concussion doesn't have to end your athletic career // by Jeffrey S. Kutcher M.D. with Joanne C. Gerstner
Pubbl/distr/stampa	New York, New York : , : Oxford University Press, , 2017 ©2017
ISBN	0-19-022662-5 0-19-022661-7
Descrizione fisica	1 online resource (273 p.)
Disciplina	617.1/027
Soggetti	Brain - Concussion Brain - Wounds and injuries Sports injuries in children
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Quick Answers to Common Questions About Sports Concussion Terms to Know About Concussions and Sports; Resources to Learn More About Sports Concussion; Acknowledgments; Index
Sommario/riassunto	Back in the Game: Why Concussion Doesn't Have to End Your Athletic Career is a timely discussion of sports concussions based on science. The book does not dwell on perpetuating fears about sports and concussion, but rather, having a real-world discussion about what science and medicine knows, what parents and coaches need to understand about the brain injury, evaluation and treatment, and possible post-concussive issues and depression.