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Autore	Joyce, James
Titolo	Deladus : Ritratto dell'artista da giovane / James Joyce ; pref. di Alberto Rossi ; versione di Cesare Pavese
Pubbl/distr/stampa	Milano, : Adelphi, 1976
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Collana	Piccola Biblioteca ; 41
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910437762903321
Autore	Tejchman Jacek
Titolo	Continuous and discontinuous modelling of fracture in concrete using FEM / / Jacek Tejchman and Jerzy Bobiski
Pubbl/distr/stampa	Berlin ; ; New York, : Springer, 2012, c2013
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Altri autori (Persone)	BobiskiJerzy
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- General -- Literature Overview -- Theoretical Models -- Discrete Lattice Model -- Epilogue.
Sommario/riassunto	The book analyzes a quasi-static fracture process in concrete and reinforced concrete by means of constitutive models formulated within continuum mechanics. A continuous and discontinuous modelling

approach was used. Using a continuous approach, numerical analyses were performed using a finite element method and three different enhanced continuum models: isotropic elasto-plastic, isotropic damage and anisotropic smeared crack one. The models were equipped with a characteristic length of micro-structure by means of a non-local and a second-gradient theory. So they could properly describe the formation of localized zones with a certain thickness and spacing and a related deterministic size effect. Using a discontinuous FE approach, numerical results of cracks using a cohesive crack model and XFEM were presented which were also properly regularized. Finite element analyses were performed with concrete elements under monotonic uniaxial compression, uniaxial tension, bending and shear-extension. Concrete beams under cyclic loading were also simulated using a coupled elasto-plastic-damage approach. Numerical simulations were performed at macro- and meso-level of concrete. A stochastic and deterministic size effect was carefully investigated. In the case of reinforced concrete specimens, FE calculations were carried out with bars, slender and short beams, columns, corbels and tanks. Tensile and shear failure mechanisms were studied. Numerical results were compared with results from corresponding own and known in the scientific literature laboratory and full-scale tests. .
