

1. Record Nr.	UNISALENTO991003216719707536
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Titolo	Elementary behaviour of composite steel and concrete structural members [e-book] / Deric J. Oehlers, Mark A. Bradford
Pubbl/distr/stampa	Oxford ; Boston : Butterworth-Heinemann, 1999
ISBN	9780750632690 0750632690
Descrizione fisica	xviii, 259 p. : ill. ; 24 cm
Altri autori (Persone)	Bradford, M. A., 1955-author
Disciplina	624.1821
Soggetti	Composite construction Structural analysis (Engineering) Concrete structures Steel structures Structural design Electronic books.
Lingua di pubblicazione	Inglese
Formato	Risorsa elettronica
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Nota di contenuto	Preface; Notation; Introduction; Sizing of Members; Elastic Analysis of Composite Beams; Rigid Plastic Analysis of Simply Supported Beams; Mechanical Shear Connectors; Transfer of Longitudinal Shear Forces; Stocky Columns; Slender Columns; Post-Cracking Dowel Strength; Rigid Plastic Analysis of Continuous Composite Beams; Lateral-Distortional Buckling; General Fatigue Analysis Procedures; Fatigue Analysis of Stud Shear Connectors; Index
Sommario/riassunto	This book is aimed at developing elementary analysis skills, familiarity and an intuitive feel for composite construction that is required by undergraduate and graduate students, and by structural engineers. It does not require a prior knowledge of advanced analysis and design techniques, and builds on simple concepts such as statics and the mechanics of materials. A topic is first introduced by a brief description, with numerous carefully-chosen examples forming an integral part of the main text. Working through the examples allows the reader to gain a full understanding of the subject, as a technique is illustrated by its application to designing new structures, or in the

important area of assessing and upgrading existing structures. The techniques described for the analysis of standard structures form a basis for understanding the way composite structures work, and these techniques are applied to many non-standard forms of composite construction that are not, or rarely, covered in national standards. The book is an essential purchase for all undergraduate and postgraduate students of structural/civil engineering and architecture, as well as all practising structural and civil engineers. Covers practical applications not covered in codes, such as service ducts, splitting, upgrading existing structures and non-standard forms of composite construction. Topics are embellished by working through numerous unique and carefully-chosen examples that form an integral part of the subject material. Not orientated to specific codes, so that principles can be applied to any national design standard.

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