1. Record Nr. UNINA9910790996303321

Autore	Georgopoulos Costas
Titolo	Sustainable concrete solutions / / Costas Georgopoulos, Andrew Minson
Pubbl/distr/stampa	Chichester, England ; ; Oxford, England : , : Wiley-Blackwell, , 2014 2014
ISBN	1-118-65430-7 1-118-65429-3
Descrizione fisica	1 online resource (226 p.)
Collana	New York Academy of Sciences
Classificazione	BUS072000
Altri autori (Persone)	MinsonAndrew
Disciplina	624.1/8340286
Soggetti	Concrete construction - Environmental aspects Sustainable buildings
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 at the end of each chapters and index.
Nota di contenuto	Machine generated contents note: Preface Foreword Professor Jacqui Glass Chair in Architecture and Sustainable Construction, Loughborough University 1. Introduction 1.1 Sustainability and Sustainable Development 1.2 The Role of the Design Team in Sustainable Development 1.3 Sustainability Credentials of Concrete 1.4 Book Layout and Context 2. Challenges & Responses 2.1 Introduction 2.2 Climate Change 2.3 Environmental Protection 2.4 Social Progress 2.5 Economic Growth 2.6 Regulatory Responses 2.7 Summary 3. Conceptual Design of Buildings & Infrastructure 3.1 Introduction 3.2 Conceptual Design of Buildings 3.3 Conceptual Design of Infrastructure 3.4 Summary 4. Material Specification 4.1 Introduction 4.2 Assessing Environmental Impacts of Materials 4.3 Responsible Sourcing of Materials 4.4 Cements and Combinations 4.5 Aggregates 4.6 Water 4.7 Admixtures 4.8 Novel Constituents 4.9 Reinforcement 4.10 Special Concretes 4.11 Specification Examples 4.12 Summary 5. Construction, Operation and End of Life 5.1 Construction 5.2 Operation 5.3 End of Life 5.4 Summary Appendix A: Thermal Mass Appendix B: Biomass Product Appendix C: Choice of Concrete Slab Options Appendix D: Worked Example on Embodied CO2 for a Building Slab Index .

Sommario/riassunto	"The book will provide students with a thorough evaluation of the advantages and disadvantages of concrete a sustainable building material"--