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ISBN	3-030-65207-6
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (IX, 602 p. 712 illus., 696 illus. in color.)
Collana	Springer textbooks in earth sciences, geography and environment
Disciplina	624.151
Soggetti	Geotechnical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Dimensional Stone -- Aggregates -- Portland Cement -- Lime -- Gypsum Products -- Concrete -- Mortar -- Ceramic Materials -- Metals and Alloys -- Bituminous Materials -- Geosynthetics and other Plastics -- Wood and Cork -- Construction and Demolition Waste (CDW).
Sommario/riassunto	Construction Materials is a comprehensive textbook covering all raw materials and products related to the construction processes, and not only those applied to building structures. The book is organized to help readers achieve competent knowledge about construction materials. At the beginning of the book the author offers the general concepts, definitions, and standards adopted worldwide for these materials to be used along the book. The central part of the text covers the primary construction materials required to manufacture concrete and mortars, the most relevant construction materials in the last century. Expressly, concrete and mortar are treated in detail in dedicated chapters per component. In addition, the author addresses other relevant materials in construction such as ceramic materials, metals and alloys, bituminous materials, and geosynthetic materials. Finally, since the construction industry is one of the largest single waste producing sector in the world, the last chapter outlines the main types and characteristics of construction and demolition waste (e.g. recycled aggregates). The book appeals to students but also professionals interested in construction materials and construction and civil

engineering.
