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Nota di contenuto	Chapter 1 Fundamentals of Civil Engineering Materials -- Chapter 2 Aggregates -- Chapter 3 Inorganic Cementing Material -- Chapter 4 Cement Concrete -- Chapter 5 Inorganic Binder Stabilized Materials -- Chapter 6 Asphalt -- Chapter 7 Asphalt Mixture -- Chapter 8 Steel.
Sommario/riassunto	This book aims to introduce the knowledge, tests, and designs of materials in civil engineering. The scope of this book includes the fundamental mechanical and physical properties of materials; properties, tests, and gradation designs of aggregates; production, composition, hydration, properties, and tests of lime and cement; composition, tests, and design of cement concrete; mechanisms, properties, and design of inorganic binder stabilized material; properties, tests, and grading of asphalt; composition, properties, tests, and designs of asphalt mixture; and properties, treatments, tests, and selections of steel. This book can be used as a textbook or a reference book for undergraduate students, graduate students, and professionals in the field of civil, pavement, bridge, geotechnical, and environmental engineering. In this book, many charts on the key

properties are used to help explain the mechanisms of materials. Step-by-step examples are presented to help understand both the knowledge and practices of material design such as the aggregate gradation design, cement concrete design, asphalt grading, and asphalt mixture design. The tests, designs, and specifications of civil engineering materials in China are introduced in detail. .

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