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Descrizione fisica	1 online resource (XXIV, 277 p. 128 illus., 82 illus. in color.)
Disciplina	620.1
Soggetti	Building materials Engineering geology Polymers Bituminous materials Structural Materials Geoengineering Asphalt, Bitumen
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Bitumen -- Aggregates -- Asphalt Mixture Design -- Asphalt Production -- Asphalt delivery, laying, and compaction -- Asphalt quality control and quality assurance -- Types of Asphalt Concrete Surfacing.
Sommario/riassunto	This book provides a comprehensive overview of asphalt materials, serving as a valuable resource for practicing engineers, laboratory technicians, researchers, engineering students, and academics. It covers both fundamental principles and advanced theoretical concepts, ensuring a well-rounded understanding of asphalt technology. The content is structured around the three primary components of asphalt—bitumen, aggregates, and asphalt mixtures—detailing their properties, characteristics, and roles in pavement performance. Additionally, the book delves into practical engineering aspects such as base preparation, material delivery, compaction, laying techniques, asphalt mixture design, quality control, and quality assurance, offering insights that are highly relevant to industry professionals. Furthermore, the book explores various types of asphalt pavements, modern mix

design methodologies such as Balanced Mix Design (BMD) and Superpave Mix Design, and emerging trends in asphalt technology, making it an indispensable guide for those involved in the development and advancement of sustainable and high-performance pavements.

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