



Basic Construction Materials (8th Edition) (Pearson Construction Technology)

By Theodore Marotta, John C. Coffey, Cynthia LaFleur-Brown, Christine LaPlante

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Basic Construction Methods, Eighth Edition, offers an in-depth introduction to the real-world application of some of the most fundamental materials used in construction today. This informative and practical text reflects the latest industry standards from ASTM and ACI and fully prepares students for entry into the construction industry or for further study in construction methods, specification writing, design methods, or related engineering programs. This new edition takes a renewed focus on sustainability, the environmental costs of materials production, and the ability to recycle construction materials.

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Editorial Review

From the Publisher

This book is an in-depth introduction covering some of the basic materials used in construction. Thorough coverage of text material as well as industry standards provides preparation for further study in construction methods, specification writing, design methods, and so forth.

From the Back Cover

"Basic Construction Methods, Eighth Edition," offers an in-depth introduction to the real-world application of some of the most fundamental materials used in construction today. This informative and practical text reflects the latest industry standards from ASTM and ACI and fully prepares students for entry into the construction industry or for further study in construction methods, specification writing, design methods, or related engineering programs. This new edition takes a renewed focus on sustainability, the environmental costs of materials production, and the ability to recycle construction materials.

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In *Basic Construction Materials*, 6th edition, I present some of the basic materials used in the construction industry. I introduce these materials to provide the reader with preparation for further academic course work in construction and engineering programs, or for entering the construction industry.

The basic materials selected are as follows:

- Aggregates
- Asphalt, asphalt concrete
- Portland cement, Portland cement concrete
- Masonry
- Ferrous metals
- Wood

These materials are widely used in construction and are some of those over which field people in the industry have the most control. Shaping these materials to final size, protecting them from the elements, and fitting them together are accomplished in the field to a greater extent than with most other materials.

The format of this book consists of text material as well as industry standards from the American Concrete Institute, the American Society for Testing and Materials, and the Engineered Wood Association, to be used as laboratory references. Because the construction industry is undergoing metrication, the appendix to this book also includes valuable metric information.

I appreciate the continued assistance of the engineering, construction, and manufacturers' associations New that have provided valuable information for this book. Comments and assistance from my teaching and construction industry colleagues, as well as from my students, have been very helpful and are gratefully acknowledged. I would also like to acknowledge the continued support and assistance afforded me by the editorial staff at Prentice Hall.

As with any publication, any errors or omissions are the responsibility of the author. Therefore, I would appreciate notification of such, as well as suggested improvements, at marotthe@hvcc.edu.

T.W.M.

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