

Concrete: Microstructure, Properties, and Materials (Mechanical Engineering)

By P. Kumar Mehta, Paulo J. M. Monteiro



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THE MOST COMPREHENSIVE AND CURRENT GUIDE TO THE PROPERTIES, BEHAVIOR, AND TECHNOLOGY OF CONCRETE

This thoroughly updated edition contains new information on:

- Recently built construction projects worldwide
- Shrinkage-reducing admixtures
- Self-consolidating concrete, pervious concrete, internal curing, and other cutting-edge innovations
- Modeling of ice formation and alkali-aggregate reaction in concrete
- Environmental impact of concrete

Each chapter begins with a preview of the contents and ends with a self-test and a guide for further reading. More than 300 drawings and photographs illustrate the topics discussed in this definitive text on concrete.

Comprehensive coverage includes:

- Microstructure of concrete
- Strength
- Dimensional stability
- Durability
- Hydraulic cements
- Aggregates
- Admixtures
- Proportioning concrete mixtures
- Concrete at early age
- Nondestructive methods
- Progress in concrete technology
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Editorial Review

About the Author

P. Kumar Mehta, Ph.D., is Professor Emeritus, Civil and Environmental Engineering, at the University of California at Berkeley. The recipient of the Berkeley Citation? the highest honor for contributions to his field and to the University--Dr. Mehta is an Honorary Member of the American Concrete Institute (ACI) and is a member of its Committee on Sustainable Development.

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