

Preface

This book systematically describes the basic composition and structure, production process, technical properties, and applications of commonly used civil engineering materials. Readers will be able to learn the preparation, properties, applications, and testing and quality control methods of major civil engineering materials, and understand the relationship between properties and composition & microstructure, as well as the ways to improve performance.

This book is edited by editors-in-chief, Deyu Kong from Zhejiang University of Technology, Tao Meng from Zhejiang University, Jintao Liu from Zhejiang University of Technology, and associate editors, Xun Xu from Southwest University of Science and Technology, Chunping Gu and Rusheng Qian from Zhejiang University of Technology. Jikai Yao, a doctoral student of Zhejiang University of Technology; Sara Ahmed Hassan, a doctoral student of Zhejiang University; Yue Yu, a graduate student from Zhejiang University; Zhentao Han, Yuchao Hong, Chengfu Zhao, Xianxiao Jin, Chenxu Ni, Qixin Cao, the graduate students from Zhejiang University of Technology, participated in part of the picture production and text-editing. Deyu Kong is responsible for the proofreading and checking of the whole book.

The specific writing division is as follows: Deyu Kong (Preface, Chapters 1, 6), Tao Meng (Chapters 2, 7), Jintao Liu (Sections 3.1-3.8), Xun Xu (Introduction and Case Studies), and Chunping Gu (Chapter 4, Section 3.9), Rusheng Qian (Chapter 5, Section 3.10).

This book adopts the latest national and industry technical standards and norms in China, and introduces the latest research progress and development direction of related materials. With strong and wide applicability, this book can be used as a reference for the students and relevant personnel in designing, construction, scientific research, engineering management and supervision, etc.

Due to the rapid development of science and technology in civil engineering materials, coupled with novel materials, new processes, and new standards emerging one after another, it is inevitable that there are inappropriate, questionable parts in this book. Readers are welcome to criticize and correct.

Editor

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