



Principles of Reinforced Concrete

By Zhenhai Guo

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Principles of Reinforced Concrete By Zhenhai Guo

Principle of Reinforced Concrete introduces the main properties of structural concrete and its mechanical behavior under various conditions as well as all aspects of the combined function of reinforcement and concrete. Based on the experimental investigation, the variation regularity of mechanical behavior, working mechanism, and calculation method are presented for the structural member under various internal forces. After examining the basic principle and analysis method of reinforced concrete, the book covers some extreme circumstances, including fatigue load, earthquake, explosion, high temperature (fire accident), and durability damage, and the special responses and analysis methods of its member under these conditions.

This work is valuable as a textbook for post-graduates, and can be used as a reference for university teachers and under-graduates in the structural engineering field. It is also useful for structural engineers engaged in scientific research, design, or construction.

- Focuses on the principles of reinforced concrete, providing professional and academic readers with a single volume reference
- Experimental data enables readers to make full use of the theory presented
- The mechanical behavior of both concrete and reinforcement materials, plus the combined function of both are covered, enabling readers to understand the behaviors of reinforced concrete structures and their members
- Covers behavior of the materials and members under normal and extreme conditions



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Editorial Review

From the Back Cover

Principles of Reinforced Concrete introduces the main properties of structural concrete and its mechanical behavior under various conditions, as well as covering the combined function of reinforcement and concrete. Based on experimental investigations and over 50 years of research and teaching, the book covers topics including: • mechanical behavior • working mechanisms • calculation methods for structural members under various internal forces • basic principles and analysis methods for reinforced concrete • Normal and extreme behaviors, including fatigue, earthquake, explosion, high temperature, and durability

Key Features: • Focuses on the principles of reinforced concrete, providing professional and academic readers with a single volume reference • Experimental data enables readers to make full use of the theory presented • The mechanical behavior of both concrete and reinforcement materials, plus the combined function of both are covered, enabling readers to understand the behaviors of reinforced concrete structures and their members • Covers behavior of the materials and members under normal and extreme conditions.

Zhenhai Guo Professor Zhenhai Guo is a member of the Department of Civil Engineering, Tsinghua University, China. He has been teaching and researching concrete structures for over 50 years. His research interests include reinforced and prestressed concrete structures, composite structures, autoclaved aerated concrete, multiaxial strength and failure criterion of concrete, and the structure of reinforced concrete at elevated temperatures.

About the Author

Professor Zhenhai Guo is a member of the Department of Civil Engineering, Tsinghua University, China. He teaches and researches concrete structure over 50 years. His research interests include reinforced and prestressed concrete structure, composite structure, autoclaved aerated concrete, confined concrete, and the structure of reinforced concrete at elevated temperature.

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