



The International Handbook of FRP Composites in Civil Engineering

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Fiber-reinforced polymer (FRP) composites have become an integral part of the construction industry because of their versatility, enhanced durability and resistance to fatigue and corrosion, high strength-to-weight ratio, accelerated construction, and lower maintenance and life-cycle costs. Advanced FRP composite materials are also emerging for a wide range of civil infrastructure applications. These include everything from bridge decks, bridge strengthening and repairs, and seismic retrofit to marine waterfront structures and sustainable, energy-efficient housing. **The International Handbook of FRP Composites in Civil Engineering** brings together a wealth of information on advances in materials, techniques, practices, nondestructive testing, and structural health monitoring of FRP composites, specifically for civil infrastructure.

With a focus on professional applications, the handbook supplies design guidelines and standards of practice from around the world. It also includes helpful design formulas, tables, and charts to provide immediate answers to common questions. Organized into seven parts, the handbook covers:

- FRP fundamentals, including history, codes and standards, manufacturing, materials, mechanics, and life-cycle costs
- Bridge deck applications and the critical topic of connection design for FRP structural members
- External reinforcement for rehabilitation, including the strengthening of reinforced concrete, masonry, wood, and metallic structures
- FRP composites for the reinforcement of concrete structures, including material characteristics, design procedures, and quality assurance–quality control (QA/QC) issues
- Hybrid FRP composite systems, with an emphasis on design, construction, QA/QC, and repair
- Quality control, quality assurance, and evaluation using nondestructive testing, and in-service monitoring using structural health monitoring of FRP composites, including smart composites that can actively sense and respond to the environment and internal states
- FRP-related books, journals, conference proceedings, organizations, and research sources

Comprehensive yet concise, this is an invaluable reference for practicing engineers and construction professionals, as well as researchers and students. It offers ready-to-use information on how FRP composites can be more effectively utilized in new construction, repair and reconstruction, and architectural engineering.

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