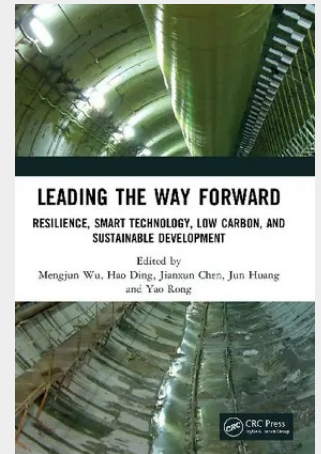


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This book is a comprehensive collection of research papers that focus on enhancing resilience, intelligence, and sustainability in tunnel engineering. It presents cutting-edge design theories, innovative construction techniques, intelligent operation and maintenance methods, sustainable development strategies and engineering application practices of tunnel and underground engineering. This book systematically organizes key contributions in critical thematic areas of tunnel disaster prevention and resilience enhancement, super-large diameter shield tunnel tech, maintenance innovations, green low-carbon solutions, drill-blast method theories, operation safety control, and deep-sea floating tunnels. Key findings include advanced shield construction techniques, optimized drill-blast methods, intelligent operation tools, and deep-sea floating tunnel research and design (R&D) breakthroughs, addressing engineering challenges and sustainable goals. These contributions provide a fresh perspective on current engineering challenges and sustainable development goals. This book is tailored for tunnel engineers, researchers, project managers, and policymakers engaged in underground infrastructure development. It also serves as a valuable resource for graduate students and academics specializing in civil and tunnel engineering.



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