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Bridge Safety, Maintenance and Management in a Life-Cycle Context

Dan M. Frangopol and Sunyong Kim

This book presents state-of-the-art theoretical background and practical applications for bridge safety, maintenance and management in a life-cycle context. The primary topics of this book include bridge safety and service life prediction, bridge inspection and maintenance, bridge resilience and sustainability, and life-cycle performance and cost analysis for individual bridges and bridge networks under hazards and climate change. This book can help students, researchers and practitioners to build up knowledge on life-cycle bridge performance and cost management at both individual bridge level and network level under various deteriorating effects, hazards and climate change.

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