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BRIDGE ENGINEERING

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ABOUT THE BOOK

A bridge is a structure built to span physical obstacles without closing the way underneath such as a body of water, valley, or road, for the purpose of providing passage over the obstacle. Bridge engineering is an engineering discipline branching from civil engineering that involves the planning, design, construction, operation, and maintenance of bridges to ensure safe and effective transportation of vehicles, people, and goods. "Bridge Engineering" book includes the main topics and the basic principles of bridge engineering and provides the full scope of current information necessary for effective and cost-conscious contemporary bridge. The book reflects new engineering and building developments, the most current design methods, as well as the latest industry standards and policies. This book provides a comprehensive overview of the significant characteristics for bridge engineering. It highlights recent advancements, requirements and improvements, and details the latest techniques in the global market. "Bridge Engineering" contains a collection of latest research developments on the bridge engineering. This book comprehensively covers basic theory and practice in sufficient depth to provide a solid grounding to bridge engineers. This book helps readers maximize effectiveness in all facets of bridge engineering. This professional book as a credible source and a valuable reference can be very applicable and useful for all professors, researchers, engineers, practicing professionals, trained practitioners, students and others

TOPICS

Engineering, Civil, Bridge, Railroad, Road, Guideway, Maglev, Modeling, Loading, Analysis, Design, Optimization, Classification, Planning, Superstructure, Substructure, Materials, Concrete, Steel, Wood, Stone, Beam, Girder, Box, Truss, Cantilever, Arch, Cable, Deck, Span, Column, Pile, Foundation, Bearing, Suspension, Fabrication, Construction, Inspection, Evaluation, Performance, Safety, Risk, Assessment, Management, Maintenance, Monitoring, Retrofitting, Rehabilitation, Strengthening, Repair, Demolition, Tests, Replacement, Standards, Methods, Specifications, Issues, American Association of State Highway and Transportation Officials (AASHTO), Load and Resistance Factor Design (LRFD), Load Factor Design (LFD), Allowable Stress Design (ASD).

BOOK EDITOR



Dr. Hamid Yaghoubi

Dr. Hamid Yaghoubi is director of Iran Maglev Technology (IMT). He became as the Iran top researcher in 2010. In this regard, he received the gold medal, honor letter and award from Iranian president, Iranian Minister of Science, Research and Technology and Iranian Minister of Information and Communication Technology. He became as the 2011 and 2012 Outstanding Reviewer for the Journal of Transportation Engineering (JTE), American Society of Civil Engineers (ASCE), USA. One of his journal papers became as the 2011 Top Download Paper for JTE. One of his book chapters in the field of transportation has been chosen several times as the most viewed & downloaded chapter for InTech. He received the ICCTP2011 award for the 11th International Conference of Chinese Transportation Professionals (ICCTP2011), Chinese Overseas Transportation Association (COTA), Southeast University, ASCE. He is an assistant chief editor and editorial board member for some journals. He has been a reviewer for the majority of journals in the field of transportation, including JTE (about 40 papers), Journal of Vehicle System Dynamics, Proceedings of the ICE – Transport, International Journal of Intelligent Transportation and Urban Planning (ITUP), etc. He has been a reviewer for some books, including CRC Press, Taylor & Francis Group. He has been a reviewer for the majority of conferences in the field of transportation. He has cooperated with the hundreds international conference as the chairman, keynote speaker, the chair of session, the publication chair, the member of committees, including scientific, organizing, steering, advisory, technical program, etc. He is also a member in several international committees.

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