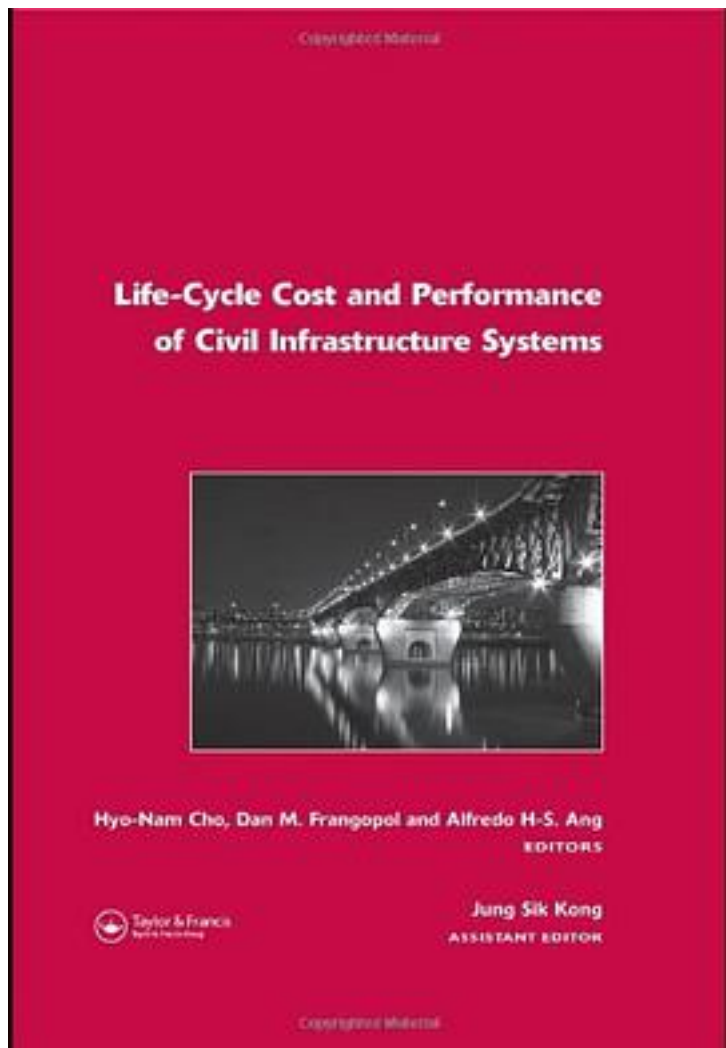


Life-cycle Cost and Performance of Civil Infrastructure Systems 2006



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著者:Cho, Hyo-nam (EDT)/ Frangopol, Dan M. (EDT)/ Ang, Alfredo Hua-Sing (EDT)

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This book contains papers covering a wide range of studies on life-cycle performance analysis, design, maintenance, monitoring, management, and cost of civil infrastructure systems. The topics include: reliability and optimization as design basis tools, monitoring systems, life-cycle cost analysis and management, bridge management systems, quality control acceptance criteria, seismic reliability analysis of deteriorating structures, bridge inspection strategies, life-cycle cost analysis of structures on a network level, optimal risk-based design of infrastructures, updating bridge reliability using load monitoring data and statistics of extremes, rehabilitation of bridges, and lifetime analysis and structural repair of civil infrastructure systems. This book serves as a valuable source of information for researchers, design and maintenance engineers, project managers, and all concerned with condition, reliability, life-cycle performance and cost of new and existing civil infrastructure systems.

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