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Structural Safety and its Quality Assurance

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The structural engineering profession plays a key role in the assurance of safe and serviceable building performance. Structural Safety and its Quality Assurance looks at structural safety problems from the basic concept phase to the design and construction phase from an international perspective. This committee report also discusses the overall concept of safety including how to ensure safety and will be of value in explaining these concepts of safety to a client or to the public. Topics include: safety concepts, role of regulation and standards, load modeling, reliability analysis, reliability-based design, durability in structural safety assessment, soils and foundations, assessment of existing structures, quality management of structural design, quality management in construction, and human error. Practicing structural engineers and students in the field of structural engineering will find this committee report beneficial.

Ключевые слова:

Содержание.

"Introduction" by Jun Kanda and Karen C. Chou /
"Safety Concepts and Risk Management" by David Elms /
"Roles of Regulation and Standards" by George R. Walker and Lam Pham /
"Load Modeling" by Jun Kanda /
"Reliability Analysis" by R.E. Melchers /
"Reliability-Based Design" by Marios K. Chryssanthopoulos and Dan Frangopol /
"Reliability-Based Service Life Prediction and Durability in Structural Safety Assessment" by Yasuhiro Mori /
"Soils and Foundations" by Jack Pappin /
"Assessment of Existing Structures" by Milan Holicky /
"Quality Management of Structural Design" by Edmund Booth /
"Quality Management in Construction" by Shunsuke Sugano /
"Human Error in Constructed Projects" by Karen C. Chou /
Index /