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Khaled M. Mahmoud is an internationally recognized bridge engineer with over 20 years of diversified hands-on experience in the design, research, management, analysis, rehabilitation, and seismic retrofit of major bridge projects. He is the President of Bridge Technology Consulting & Engineering, a firm that specializes in bridge design and rehabilitation, bridge cable analysis and evaluation, bridge inspection, seismic and fatigue vulnerability assessments, and long span bridge engineering. Throughout his career, he has held key positions in the research, design and rehabilitation of a number of long-span, short-span and movable bridge projects.

Dr Mahmoud is an industry leader who possesses thorough knowledge of merging high-quality engineering practices and business goals with a sharp focus on engineering excellence. He has been in charge of the assessment and evaluation of numerous bridge structures throughout the United States. As a noted expert in bridge cables, he conducts pioneering research in the assessment of cable deterioration due to hydrogen embrittlement and stress corrosion. Dr Mahmoud is currently working on three major suspension bridge projects.

Dr Mahmoud is the Chairman and Founder of the [Bridge Engineering Association](#) that organizes the [New York City Bridge Conference](#). He is the Chairman of the ASCE Committee on Cable-Supported Bridges and a member of the PTI Committee on Cable-Stayed Bridges. He is the Editor of the book *Recent Developments in Bridge Engineering*, published by Balkema. In February 2002, the Association for Bridge Construction and Design named him 'Bridge Engineer of the Year'. Dr Mahmoud appeared in the Discovery Channel Program *Seven Wonders of Engineering*, which was broadcast on May 12, 2004.

Dr Mahmoud holds a Masters in Structural Engineering from the City College of New York and a Doctorate in Engineering Mechanics from the City University of New York. He is a Licensed Professional Engineer in the States of New York, California and Washington. Dr Mahmoud has published papers in *Theoretical and Applied Fracture Mechanics*, *ASCE Journal of Bridge Engineering*, *International Journal of Fracture* and *International Journal of Information Technology in Architecture, Engineering and Construction*. His research work on applying state-of-the-art in fatigue and modelling corrosion damage of suspension bridge wires has been published in numerous international conferences and seminars. Dr Mahmoud is an Adjunct Professor of Structural and Bridge Engineering at Columbia University, The City College, and Polytechnic University in the City of New York.