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Abstract

Advancements in structural engineering are often driven by advancements in material science. However, applications of new advanced materials, such as fiber reinforced polymer (FRP) and nanomaterials, often produce new structural problems that must be resolved before it can be safely used in engineering. This seminar presents a few new technologies emerging in recent years to overcome those new structural problems, including a new compression yielding structural design strategy, a hybrid bonding technique for externally bonded reinforcement, and application of nano-steel sheet for strengthening concrete structures. An important and difficult topic in modern structural engineering – constitutive modeling of concrete – will also be discussed in the talk. The seminar features research methodology and is suitable for research students.

Biography of Prof. Yufei Wu

Yufei Wu is currently a Professor in Infrastructure Engineering and Metro Chair in the School of Engineering at RMIT University in Australia. He received his BSc in 1983 and MSc in 1986 from Zhejiang University, China. He received MEng in 1994 from National University of Singapore and completed his PhD in 2002 from the University of Adelaide, Australia. He has more than ten years of industry working experience in structural engineering as a professional engineer in consulting firms in China, Singapore and Australia and is a chartered professional engineer of New Zealand and Australia (MIPENZ, FIEAust, CPEng, NER). He worked in Shanghai Jiao Tong University from 1989 to 1992 as a lecturer. Before joining RMIT University, he was an Associate Professor in the Department of Architecture and Civil Engineering at City University of Hong Kong. His teaching and research involve concrete structures, structural design, composite structures, FRP structures and structural rehabilitation. Professor Wu has published more than 160 technical works, including 91 SCI indexed journal papers with an H index of 26 (Google Scholar). He is the sole or 1st named inventor of numerous new structural technologies with six US patents.

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