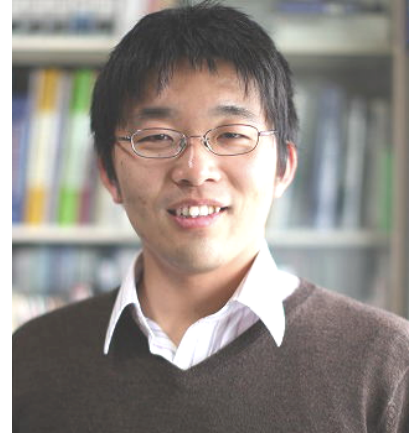




Research and Development of Railway RC Bridges in Japan

Ken WATANABE, Ph.D.

Railway Technical Research Institute, Tokyo, Japan
Concrete Structures, Structures Technology Division



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Abstract:

Japan's first railway line between Shimbashi (Tokyo) and Yokohama opened in 1872. The next breaking stop was the opening of the first Shinkansen line between Tokyo and Shin-Osaka in 1964. Since its initiation, the Japanese railway technology has been the world-leading example of modern design, accounting for high-speed requirements and tolerance to natural disasters. To meet the growing needs of railway research, Railway Technical Research Institute (RTRI) in Tokyo has been promoting active and innovative R&D, from fundamentals to application. This presentation will provide insights on RTRI researchers' work in wide range of engineering fields, including rolling stock, track, civil and electrical engineering, information technology, as well as materials, environmental and human sciences. As civil engineers face next challenge of managing aging infrastructure, this presentation will present some of the methodologies leading to performance-based design of reinforced concrete infrastructure.

Bio:

Dr. Ken Watanabe is an Assistant Senior Researcher of RTRI in Tokyo, Japan. He received his PhD from Tokyo Institute of Technology in Japan in 2005. His research interests include design and evaluation of concrete bridges and maintenance technology of railway systems.

