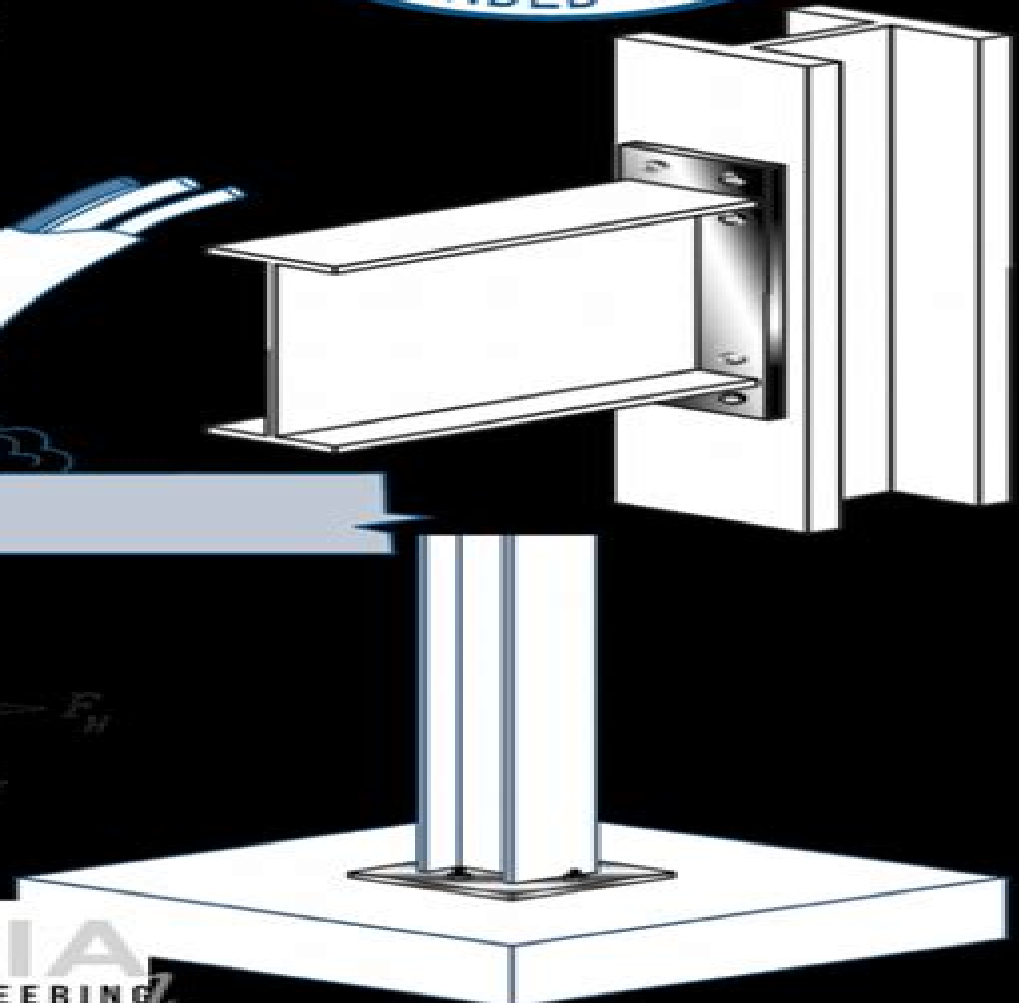
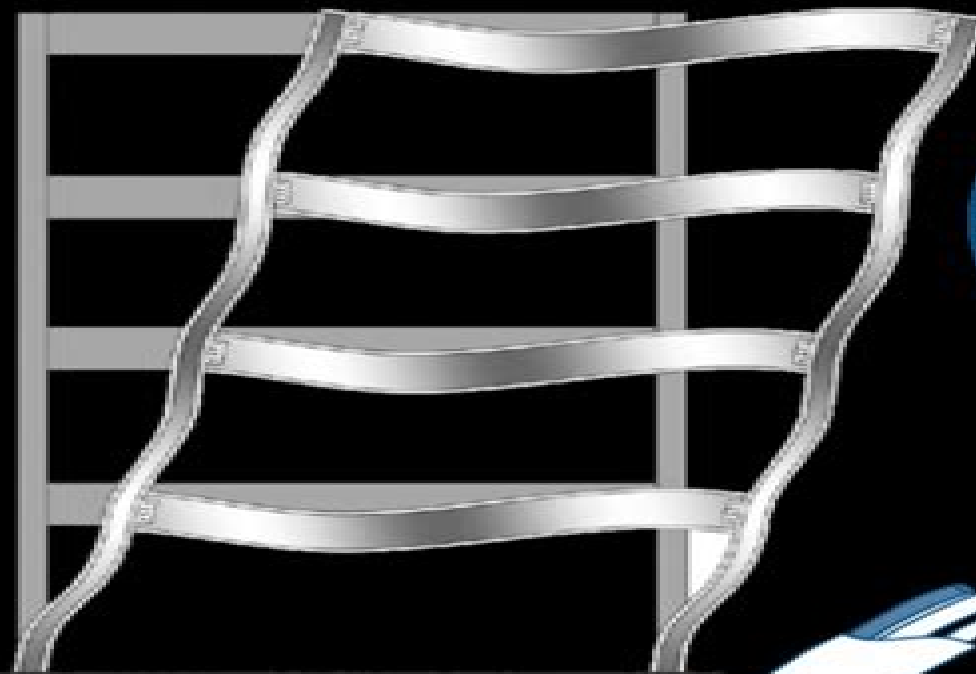




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Concrete-filled Double Skin Steel Tubular Structures Lin-Hai Han, Dennis Lam, David Nethercot, 2018-10-12 This is the first design guide on concrete filled double skin steel tubular CFDST structures. It addresses in particular CFDST structures with plain concrete sandwiched between circular hollow sections and provides the relevant calculation methods and construction provisions for CFDST structures. These inherit the advantages of conventional concrete filled steel tubular CFST structures including high strength, good ductility, and durability, high fire resistance, and favourable constructability. Moreover, because of their unique sectional configuration, CFDST structures have been proved to possess lighter weight, higher bending stiffness, and better cyclic performance than conventional CFST. Consequently, CFDST can offer reduced concrete consumption and construction costs. This design guide is for engineers designing electrical grid infrastructures, wind power towers, bridge piers, and other structures requiring light self weight, high bending stiffness, and high bearing capacity.

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Theory and Design of Steel Structures Giulio Ballio, Federico M. Mazzolani, 1983

Design of Steel-Concrete Composite Structures Using High-Strength Materials J.Y. Richard Liew, Ming-Xiang Xiong, Bing-Lin Lai, 2021-08-04 High strength materials offer alternatives to frequently used materials for high rise construction A material of higher strength means a smaller member size is required to resist the design load However high strength concrete is brittle and high strength thin steel plates are prone to local buckling A solution to overcome such problems is to adopt a steel concrete composite design in which concrete provides lateral restraint to steel plates against local buckling and steel plates provide confinement to high strength concrete Design of Steel Concrete Composite Structures Using High Strength Materials provides guidance on the design of composite steel concrete structures using combined high strength concretes and steels The book includes a database of over 2 500 test results on composite columns to evaluate design methods and presents calculations to determine critical parameters affecting the strength and ductility of high strength composite columns Finally the book proposes design methods for axial moment interaction curves in composite columns This allows a unified approach to the design of columns with normal and high strength steel concrete materials This book offers civil engineers structural engineers and researchers studying the mechanical performance of composite structures in the use of high strength materials to design and construct advanced tall buildings Presents the design and construction of composite structures using high strength concrete and high strength steel complementing and extending Eurocode 4 standards Addresses a gap in design codes in the USA China Europe and Japan to cover composite structures using high strength concrete and steel in a comprehensive way Gives insight into the design of concrete filled steel tubes and concrete encased steel members Suggests a unified approach to designing columns with normal and high strength steel and concrete

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