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Steel and Composite Structures:

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including connections, composite members, plate girders, and torsion. This textbook also includes access to companion online videos that help connect theory to practice. Coverage includes: Structural systems and elements Design considerations Tension members Design of columns

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discussions on the mechanical properties of HSS while explaining the latest progress in research and design guidelines, including material properties at ambient and elevated temperatures. In addition, the book explains the behavior of elementary members subject to different types of

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loads and load combinations, and those that are integral to the design of bolted and welded connections. The hysteretic behavior of HSS materials and members are also discussed. This is critical for application and designs under earthquakes and fire conditions. The buckling behaviors of HSS box-

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guidelines Explains the behavior of elementary members subjected to different types of loads and load combinations Recommends structural systems for using high-strength constructional steels in seismic zones

The book introduces all the aspects

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needed for the safe and economic design and analysis of connections using bolted joints in steel structures. This is not treated according to any specific standard but making comparison among the different norms and methodologies used in the engineering practice, e.g. Eurocode,

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AISC, DIN, BS. Several examples are solved and illustrated in detail, giving the reader all the tools necessary to tackle also complex connection design problems. The book is introductory but also very helpful to advanced and specialist audiences because it covers a large variety of practice demands for

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Connection design. Parts that are not taken to an advanced level are seismic design, welds, interaction with other materials (concrete, wood), and cold formed connections./p

This book publishes the proceedings from the Third International Workshop

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on Connections in Steel Structures: Behaviour, Strength and Design held in Trento, Italy, 29-31 May 1995. The workshop brought together the world's foremost experts in steel connections research, development, fabrication and design. The scope of the papers reflects state-of-the-art issues in all



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areas of endeavour, and manages to bring together the needs of researchers as well as designers and fabricators. Topics of particular importance include connections for composite (steel-concrete) structures, evaluation methods and reliability issues for semi-rigid connections and

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frames, and the impact of extreme loading events such as those imposed by major earthquakes. The book highlights novel methods and applications in the field and ensures that designers and other members of the construction industry gain access to the new results and procedures.

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