Structural Steelwork: 4th edition. This fourth edition of this popular steel structures book contains references to both Eurocodes and British Standards. All the material has been updated where necessary, and new and revised worked examples are included. Sections on the meaning, the purpose and limits of structural design, sustainable steel building and energy saving have been updated. The initial chapters cover the essentials of structural engineering and structural steel design. The remainder of the book is dedicated to a detailed examination of the analysis and design of selected types of structures, presenting complex in an understandable and user-friendly way. These structures include a range of building elements and structures, such as columns, beams and plate girders, as well as structures for wind and earth pressures. Applications range from civil engineering to mechanical engineering and from automotive engineering to environmental and renewable energy systems. The book is useful for structural engineers, construction managers, students, and anyone who needs a refresher course on up-to-date methods of design and analysis to EC3 and EC4. It will also be useful to practicing engineers and academics who need an introduction to the Eurocodes.

Advanced Analysis and Design of Fire Safety of Steel Structures

Fourth International Conference on Advances in Steel Structures

Completely revised and updated, this fourth edition of Structural Steelwork: Design to Limit State Theory describes the design theory and code requirements for common structures, connections, elements, and frames. The book is written from the perspective of the principles underlying the design of steel structures. Steel is a material that is used in a wide variety of construction, from steel bridges to steel buildings. The book is useful for structural engineers, construction managers, students, and anyone who needs a refresher course on up-to-date methods of design and analysis to EC3 and EC4. It will also be useful to practicing engineers and academics who need an introduction to the Eurocodes.

Research and Development in Intelligent Systems XVII

A discussion of the question "Can We Do This?"! Offering guidance on how to use code-based procedures while at the same time providing a new understanding of the code's limitations. The book is useful for structural engineers, construction managers, students, and anyone who needs a refresher course on up-to-date methods of design and analysis to EC3 and EC4.