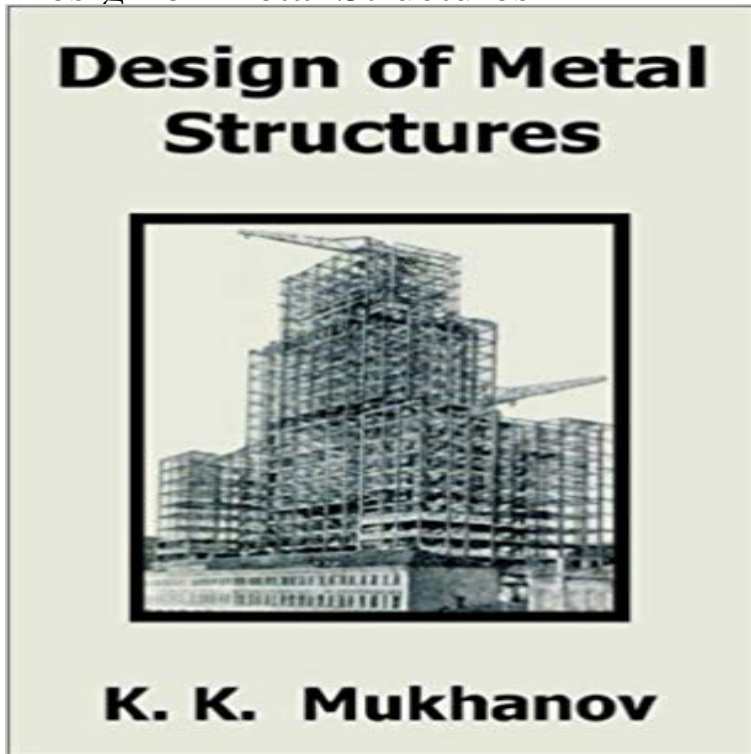


Design of Metal Structures



This book sets forth methods of designing and analyzing metal engineering structures of steel and aluminum. The first two chapters are devoted to the fundamentals of designing and the theory of analyzing metal structures and structural members with account of the material working not only in the elastic, but also in the elastoplastic stage. Chapters 3-5 describe various structural shapes and methods of joining together structural elements, the actual behavior of the joints and their investigation, as well as certain industrial requirements which the design of structures must meet. In chapters 6-8 the reader will find a detailed consideration of the principal elements of metal structures such as beams, girders, trusses, and columns, as well as information on crane girders and eccentrically loaded columns. The design of metal structures consisting of separate structural elements is the subject matter of Chapters 9 and 10. The exposition of this material is based on examples of industrial buildings and some special large-span and high structures. The last chapter sets forth the fundamentals of designing continuous sheet-metal structures (steel shells). All the material contained in the book conforms to the standards for designing steel structures and structures of aluminum alloys, as well as to the general building standards and regulations followed in the USSR.

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