



# Welding of Tubular Structures: Proceedings of the Second International Conference Held in Boston, Massachusetts, USA, 16 - 17 July 1984, Under the Auspices of the International Institute of Welding

By Yong Zhou

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## **Welding of Tubular Structures: Proceedings of the Second International Conference Held in Boston, Massachusetts, USA, 16 - 17 July 1984, Under the Auspices of the International Institute of Welding** By Yong Zhou

Welding of Tubular Structures focuses on the testing, techniques, and other processes connected with welding tubular structures in different conditions and environments.

The selection features the works of individuals who have devoted time in the study of welding, particularly on tubular structures and other materials. The discussions focus on the design of connections of welded structures, including the process of welding and inspection. Attention is given to weldments on offshore structures, and primary concerns include the testing of the materials used and how these materials fall short if subjected to stress and fatigue. Different welding techniques used on offshore structures are also discussed. Welding techniques on other materials are also noted. These discussions are supported by studies that are backed up by numerical representations, which is aimed at validating the strength of welded materials. Consideration is given when these welded materials suffer from crack or fatigue. Analysis of the factors why these welded materials fail to meet standards is done. A comparative study is also conducted on aluminum, steel, and other products when these are subjected to stress in different conditions and environments.

The book is a primary source of data to those in the welding sector, particularly those working in offshore structures.

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