



Brittle Fracture in Steel Structures

G.M. Boyd

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Brittle Fracture in Steel Structures emphasizes the prevention of brittle fracture in structures fabricated from mild and low alloy steel operating at normal ambient temperatures.

This book is divided into seven chapters. Chapter 1 provides the historical background and summarizes numerous case histories of brittle fractures. The nature of the phenomenon and factors that influence brittle fracture, including various methods of testing to determine the notch ductilities of different steels are described in Chapters 2 to 4. The fifth chapter elaborates the design considerations affecting the choice of steel for structural applications. Chapter 6 reviews the main methods for assessing the degree of notch ductility needed for different applications, while Chapter 7 deliberates practical procedures, recommended by the Navy Department Advisory Committee on Structural Steels, for assessing the suitability of different steels for particular applications.

This publication is beneficial to metallurgists and welders intending to acquire knowledge of mild steel structures fabricated by welding from rolled steel plates and sections.

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