An Atlas of Continuous Cooling Transformation (CCT) Diagrams Applicable to Low Carbon Low Alloy Weld Metals (matsci)

By Zhuyo Zhang

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Editorial Review

From the Back Cover
Since the pioneering studies on continuous cooling transformation (CCT) diagrams carried out by Christenson and others were published almost 50 years ago, many hundreds of CCT diagrams have been constructed throughout the world to describe the (gamma-alpha) transformation kinetics of most grades of commercial steels. However, since the mid-1970s, increasing demands for weld metals of high toughness at low temperatures with the appropriate microstructures has produced the requirement for a more systematic and detailed study of transformation kinetics and mechanical properties of low alloy weld deposits. This resulted in a number of CCT diagrams which were directly applicable to weld metals and these have significantly improved our understanding of weld metal microstructural development and the effects of different factors, such as chemical composition, oxygen content (thus size distribution and population of inclusions), welding parameters (e.g. cooling rate) and prior austenite grain size, on the (gamma-alpha) transformation behaviour of weld metals. It is therefore of both practical as well as academic importance to draw together an atlas of CCT diagrams applicable to low carbon low alloy weld metals, as this book has done. It is hoped that these diagrams will be of assistance to welding engineers, welding metallurgists and welding-consumables designers in industry. At the same time, they will also prove useful to those in academia who are involved into investigations of steel weld metal phase transformation kinetics.

Users Review

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Edward Rideout:

This An Atlas of Continuous Cooling Transformation (CCT) Diagrams Applicable to Low Carbon Low Alloy Weld Metals (matsci) book is just not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book is usually information inside this publication incredible fresh, you will get facts which is getting deeper an individual read a lot of information you will get. This specific An Atlas of Continuous Cooling Transformation (CCT) Diagrams Applicable to Low Carbon Low Alloy Weld Metals (matsci) without we know teach the one who examining it become critical in thinking and analyzing. Don't end up being worry An Atlas of Continuous Cooling Transformation (CCT) Diagrams Applicable to Low Carbon Low Alloy Weld Metals (matsci) can bring any time you are and not make your case space or bookshelves' grow to be full because you can have it in the lovely laptop even telephone. This An Atlas of Continuous Cooling Transformation (CCT) Diagrams Applicable to Low Carbon Low Alloy Weld Metals (matsci) having very good arrangement in word as well as layout, so you will not truly feel uninterested in reading.

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