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Nota di contenuto	Preface -- Chapter 1 Introduction -- Chapter 2 Classification of Fatigue Damage and Repair Methods -- Chapter 3 Database of Fatigue Damage and Repair Cases -- Chapter 4 Existence of Weld Defects -- Chapter 5 Use of Joint Details of Low Fatigue Strength -- Chapter 6 Occurrence of Unexpected Stresses and Deformations -- Chapter 7 Orthotropic Steel Bridge Deck -- Chapter 8 Vibration Fatigue -- Chapter 9 Fatigue Assessment Procedures for Existing Structures -- Chapter 10 Changes in Steel Performance -- Appendix.
Sommario/riassunto	This book summarizes the numerous cases of fatigue damage of steel structures that have been reported over the past years, as well as the repair and retrofitting technologies that have been proposed and applied to solve the issue. It focuses on the causes and repair practices and provides comprehensive information to anyone with interest in the topic. This book was written as part of the activities of the International Institute of Welding (IIW), Commission XIII (Fatigue of Welded Components and Structures) Working Group 5 (Life Extension of Welded Structures by Repair, Retrofitting and Structural Monitoring;

hereafter referred to as IIW XIII WG5). The author is the former chairman of IIW XIII WG5.
