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Sommario/riassunto	"Preface A significant amount of metallic structures are aging. The conventional method of repairing or strengthening aging metallic structures often involves bulky and heavy plates that are difficult to fix and prone to corrosion, as well as to their own fatigue. Fibre-reinforced polymer (FRP) has great potential in strengthening metallic structures,

such as bridges, buildings, offshore platforms, pipelines, and crane structures. The existing knowledge of the carbon fibre-reinforced polymer (CFRP)- concrete composite system may not be applicable to the CFRP-steel system because of the distinct difference between the debonding mechanism of the former and latter, alongside the unique failure modes for steel members and connections. Several design and practice guides on FRP strengthening of metallic structures were published in the UK, United States, Italy, and Japan. However, the following topics are not covered in detail: bond behaviour between FRP and steel, strengthening of compression members, strengthening of steel tubular members, strengthening against web crippling of steel sections, and strengthening for enhanced fatigue and seismic performance. The present book not only contains descriptions and explanations of basic concepts and summarises the research performed to date on the FRP strengthening of metallic structures, but also provides some design recommendations. Comprehensive, topical references appear throughout the book. It is suitable for structural engineers, researchers, and university students who are interested in the FRP strengthening technique"--
