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Nota di contenuto	Chapter 1. Design methods, design guidelines -- Chapter 2. Corrosion loads, corrosion resistance, corrosion-proof design -- Chapter 3. Dimensioning of process equipment and storage tanks. Dimensioning by taking membrane stresses into account -- Chapter 4. Dimensioning equipment loaded by external pressure -- Chapter 5. Bending stress state of axi-symmetrical shells. Strength analysis by taking bending stresses into account -- Chapter 6. Strength tests of pressure vessel ends, nozzle and support environments -- Chapter 7. Strength test and dimensioning on leak tightness of flange joints -- Chapter 8. Investigation of stress concentrating cross-sections using the finite element method.
Sommario/riassunto	This book offers a comprehensive guide to the design and construction of process equipment and storage tanks. It covers the theoretical fundamentals of calculation methods and dimensioning techniques used in the design process, as well as the interpretation and evaluation of finite element examination results for stress concentrating cross-

sections. Additionally, the book showcases corrosion-proof design through real-world examples. All measurement and calculation results presented in the book are based on the author's original research work.