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Autore	Sparks Charles
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Sommario/riassunto	Marine risers are unusual structures that defy standard engineering intuition, yet they are critical to the safety and structural integrity of offshore platforms. In this new edition, six additional chapters provide further arguments to support effective tension as well as original analysis of helical buckling. An entire chapter is devoted to the Macondo accident of 2010, where it is known that helical buckling of the drill pipe within the riser led to pipe deflection inside the blowout preventer (BOP), sufficient to prevent the latter from closing the well. Features and benefits: Details on the Macondo incident and how the behavior of the drill pipe within the marine riser affected this tragedy Analysis of helical buckling inside a riser associated with flexing pipe inside a seabed BOP Discussion of how and when planar buckling transforms into helical buckling Three new Excel files that allow readers to perform further calculations with their own data