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| Nota di contenuto | Introduction -- Design Summary -- Kinematics -- Stress -- Elastic Behavior -- Yield and Inelastic Behavior -- Internal Pressure Resistance -- External Pressure Resistance -- Connections -- Column Stability -- Length Change and Axial Force -- Design Loads -- Casing Seat Selection and Sizing -- Example Designs -- Special Topics -- Tensors and Tensor Notation -- The Frenet-Serret Formulas -- Stress State Around a Wellbore -- Tables of Tubular Properties. |
| Sommario/riassunto | "Elements of Oil and Gas Well Tubular Design offers insight into the complexities of oil well casing and tubing design. The book's intent is to be sufficiently detailed on the tubular-oriented application of the principles of solid mechanics while at the same time providing readers with key equations pertinent to design. It addresses the fundamentals of tubular design theory, bridging the gap between theory and field operation. Filled with derivations and detailed solutions to well design examples, this book provides the well designer with sound engineering principles applicable to today's oil and gas wells"-- |