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Nota di contenuto	Intro -- Natural Gas Engineering Handbook -- Contents -- Preface -- List of Spreadsheet Programs -- Spreadsheet Programs and Functions -- List of Nomenclature -- 1 Introduction -- 1.1 What Is Natural Gas? -- 1.2 Utilization of Natural Gas -- 1.3 Natural Gas Industry -- 1.4 Natural Gas Reserves -- 1.5 Types of Natural Gas Resources -- 1.6 Future of the Natural Gas Industry -- 2 Properties of Natural Gas -- 2.1 Introduction -- 2.2 Specific Gravity -- 2.3 Pseudocritical Properties -- 2.4 Viscosity -- 2.5 Compressibility Factor -- 2.6 Gas Density -- 2.7 Formation Volume Factor and Expansion Factor -- 2.8 Compressibility of Natural Gas -- 2.9 Real Gas Pseudopressure -- 2.10 Real Gas Normalized Pressure -- 3 Gas Reservoir Deliverability -- 3.1 Introduction -- 3.2 Analytical Methods -- 3.3 Empirical Methods -- 3.4 Construction of Inflow Performance Relationship Curve -- 4 Wellbore Performance -- 4.1 Introduction -- 4.2 Single-Phase Gas Well -- 4.2.1 The Average Temperature and Compressibility Factor Method -- 4.2.2 The Cullender and Smith Method -- 4.3 Mist Flow in Gas Wells -- 5 Choke Performance -- 5.1 Introduction -- 5.2 Sonic and Subsonic Flow -- 5.3 Dry Gas Flow through Chokes -- 5.3.1 Subsonic Flow -- 5.3.2 Sonic Flow -- 5.3.3 Temperature at Choke -- 5.3.4 Applications -- 5.4 Wet Gas Flow through Chokes -- 6 Well Deliverability -- 6.1 Introduction -- 6.2 Nodal Analysis -- 6.2.1 Analysis with the Bottom Hole Node -- 6.2.2 Analysis with Wellhead Node -- 7 Separation -- 7.1

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