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By: M. Sadeq Adnan 1 1 Fluid
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Natural Gases A gas is defined as
a homogeneous fluid of low

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viscosity and density that has no definite volume but expands to completely fill the vessel in which it is placed. Generally, the natural gas is a mixture of hydrocarbon and nonhydrocarbon gases.

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chapters to estimate various thermodynamic, physical, and transport properties of petroleum fractions. In this chapter, various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures, petroleum fractions,

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crude oils, natural gases, and reservoir fluids are presented. As it was discussed in Chapters 5 and 6, properties of gases may be estimated more accurately than properties of liquids. Theoretical methods of Chapters 5 and 6 for estimation of thermophysical

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properties generally can be applied to both liquids and gases; however, more accurate properties can be predicted through empirical correlations particularly developed for liquids. When these correlations are developed with some theoretical

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basis, they are more accurate and have wider range of applications. In this chapter some of these semitheoretical correlations are presented. Methods presented in Chapters 5 and 6 can be used to estimate properties such as density, enthalpy, heat capacity,

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Heat of vaporization, and vapor pressure. Characterization methods of Chapters 2-4 are used to determine the input parameters needed for various predictive methods. One important part of this chapter is prediction of vapor pressure that

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is needed for vapor-liquid
equilibrium calculations of
Chapter 9.

The petroleum industry in general has been dominated by engineers and production specialists. The upstream segment of the industry

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is dominated by drilling/completion engineers. Usually, neither of those disciplines have a great deal of training in the chemistry aspects of drilling and completing a well prior to its going on production. The chemistry of drilling fluids

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wellbore, in many cases may be attributable to the fluid used. Considered the "bible" of the industry, Composition and Properties of Drilling and Completion Fluids, first written by Walter Rogers in 1948, and updated on a regular basis

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thereafter, is a key tool to achieving successful delivery of the wellbore. In its Sixth Edition, Composition and Properties of Drilling and Completion Fluids has been updated and revised to incorporate new information on technology, economic, and

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