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### Chapter 17

**An Energy Integrated Approach to Design a Supercritical Fischer-Tropsch Synthesis Products Separation and Solvent Recovery System**

Tala Katbeh, Nimir O. Elbashir, and Mahmoud El-Halwagi

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### Chapter 18

**Multi-Scale Models for the Prediction of Microscopic Structure and Physical Properties of Chemical Systems Related to Natural Gas Technology**

Konstantinos D. Papavasileiou, Manolis Vasileiadis, Vasileios K. Michalis, Loukas D. Peristeras, and Ioannis G. Economou

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