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4 Thermoanalytical investigations on petroleum and petroleum products
4.1 Crude oils (degasified crudes); 4.2 Refinery residues; 4.2.1 Description and characterization of the samples; 4.2.2 Implementation and evaluation of tests; 4.2.2.1 Deviations in thermogravimetry; 4.2.3 Thermogravimetry in an inert atmosphere; 4.2.3.1 Directly measured index numbers; 4.2.3.2 Derived index numbers; 4.2.3.3 Simulated distillation; 4.2.3.4 Directly measured index numbers in comparison with the simulated distillation; 4.2.3.5 Derived index numbers for practical application; 4.2.4 Thermogravimetry in air
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4.3.2.1.2 Correlation index numbers with analysis data

Sommario/riassunto

This exceptional book reveals the results of twelve years of extensive thermoanalytical investigations into petroleum and its products with the aid of 236 tables, 284 diagrams and 159 references. Firstly, the methods employed in obtaining thermoanalytical data, in particular thermogravimetry, differential thermal analysis and differential scanning calorimetry, are presented, and the underpinning theory described. Next, the data obtained from model substances, i.e. pure hydrocarbons, is displayed; it is then explained how multicomponent hydrocarbon systems may be characterized by comparison
