

CONTENTS

- 1 **Introduction** — Malanowski S.K.
- 13 **Calculation of Petroleum Processes Using the Modified Distillation Package**
— Gierycz P.
- 27 **The Generalized NRTL Model Associated with the Peng-Robinson Equation of State to Predict Liquid-Liquid Equilibria Between Hydrocarbons, Water and Ethylene Glycol**
— Neau E., Nicolas C., Jaubert J.-N. and Mutelet F.
- 37 **Parametrization of Molecular-Based Equations of State: The PC-SAFT, soft-SAFT, PHSC and PSCT Models** — Castro-Marcano F., Colina C.M. and Olivera-Fuentes C.
- 51 **Numerical Algorithms for Determination of Retrograde Region of Gas Condensate Reservoir** — Tarom N., Jalali F., Al-Sayegh A. and Moshfeghian M.
- 65 **Vapor-Liquid (VLE) and Liquid-Liquid (LLE) Phase Equilibria Calculations for Polystyrene + Methylcyclohexane and Polystyrene + Cyclohexane Solutions**
— Wilczura-Wachnik H. and Jónsdóttir S.Ó.
- 81 **An Energy-Based Cohesion Function for Cubic Equations of State** — Figueira F., Rodríguez A.J., Stamateris B.C. and Olivera-Fuentes C.G.
- 99 **Study of Extraction of Cinnamon Oils from the Bark of *Cinnamomum cassia presl* by Supercritical Carbon Dioxide** — Zhao S. and Liang H.
- 107 **VLE in (C₆H₁₄ + C₁₆H₃₄) Mixture. Prediction with Elbro Free Volume Method**
— Wilczura-Wachnik H. and Pawłowski T.S.
- 117 **Modeling of the Liquid-Liquid Equilibrium for Aqueous Solutions of Nonionic Surfactants C_iE_j** — Browarzik C. and Browarzik D.
- 129 **Experimental and Predicted Thermodynamic Properties of Mixtures Containing Corn Oil with Ketones and Alkanes Employed in Their Refine** — Resa J.M., González C., Concha R.G. and Goenaga J.M.
- 143 **Modelling the Solubility of Gases in Saturated and Substituted Perfluoroalkanes**
— Dias A.M.A., Pamies J.C., Vega L.F., Coutinho J.A.P. and Marrucho I.M.
- 153 **Activity Coefficients of Potassium Hydrogen Tartrate in Aqueous Solutions with Potassium Chloride at Temperatures Between 278.15 and 298.15 K** — Lopes A., Sousa P. and Farelo F.
- 161 **Solid-Liquid Equilibria in the Quaternary System NaCl–KCl–NH₄Cl–H₂O** — Farelo F.
- 173 **Thermochemical Study of Indium Nitride** — Zięborak-Tomaszkiewicz I.
- 181 **H/D Isotope Effects on Miscibility of Nitrobenzene with *n*-Hexane** — Starościec E., Siporska A., Makowska A. and Szydłowski J.
- 189 **Conductivity of 1-Butyl-3-methyl-imidazolium Chloride Solutions in Alcohols**
— Domańska U. and Bogel-Lukasik E.