

## CONTENTS

**Physical Chemistry**

<i>I. Adamović, M. Parac, M. Hanrath and M. Perić: Ab initio study of the electronic spectrum of BeO .....</i>	721
<i>L. Odochian, D. M. Pantea, I. Colugareanu, D. Ionescu and O. Vicol: On the nature of crystallization water using thermal analysis. - The application to some hydrates with different cations .....</i>	737
<i>B. R. Simonović, S. V. Mentus and M. V. Šušić: Examination of the kinetics of Zr<sub>1.02</sub>Ni<sub>0.98</sub> alloy hydriding .....</i>	745
<i>M. Dimitrijević, M. M. Antonijević and V. Dimitrijević: Kinetics of pyrite oxidation by hydrogen peroxide in phosphoric acid solutions .....</i>	753
<i>D. T. Živković and Ž. D. Živković: Determination of the thermodynamic properties for Cr-Co-Me (Me=Mo, Al) systems by using the general solution model for predicting ..</i>	765
<i>B. S. Andonovski and G. M. Stojković: Spectrophotometric study of the protonation processes of some indole derivatives in sulfuric acid .....</i>	775
<i>J. J. Čomor, M. M. Kopečni and Dj. M. Petković: Self-association and association of tri-<i>n</i>-butyl phosphate (TBP) in different diluents .....</i>	789

**Electrochemistry**

<i>K. I. Popov, S. M. Pešić and T. M. Kostić: The current distribution in an electrochemical cell. Part V. The determination of the depth of the current line penetration between the edges of the electrodes and the side walls of the cell (Short communication) .....</i>	795
--	-----

**Chemical Engineering**

<i>B. D. Djordjević, M. Lj. Kijevčanin, A. Ž. Tasić and S. P. Šerbanović: Application of the MvdW1 and HVOS – NRTL mixing rules to simultaneous correlation of the excess enthalpies and W-shaped excess heat capacities data of 1,3-dioxolane + <i>n</i>-alkane systems .....</i>	801
Professor John M. Prausnitz - On the occasion of his 70th birthday .....	813
Contents of volume 64 .....	815
Subject index .....	821
Author index .....	825

Published by the Serbian Chemical Society, Karnegijeva 4/III,  
P.O.Box 35-08, YU-11001 Belgrade, Yugoslavia  
Printed by the Faculty of Technology and Metallurgy, Karnegijeva 4,  
P.O.Box 35-03, YU-11001 Belgrade, Yugoslavia