

Examiners: Prof. I. Filipović, Prof. S. Žilić, and Prof. M. Karšulin Oral examination: January 16, 1965. Degree conferred: February 11, 1965.

Dissertation deposited at University Library, Zagreb and Faculty of nology, University of Zagreb.

(96 pages, 31 figures, 22 tables, 58 references, original in Croatian)

J. EDER-TRIFUNOVIĆ

DCC-25

- 1. Polarographic Investigations of Complexes of Some Metal Ions in Solutions of β -Oxybutyric Acid and Sodium β -Oxybutyrate
- I. Eder-Trifunović J.
- II. Laboratory of Analytical Chemistry, Faculty of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia

Cadmium	
Copper	
Indium	
Lead	
β-Oxybutyric acid	
Polarography, of metal	$\operatorname{complexes}$



DCC-26

- 1. Polarographic Investigations of Metal Complexes in Glycolic Acid Solutions
- I. Bujak A.
- II. Laboratory of Inorganic Chemistry, Faculty of Technology, University of Zagreb, Zagreb, Croatia, Yugoslavia

Cadmium Copper Glycolic acid Indium Lead Polarography, of metal complexes

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All the F_{ij} elements assumed zero are found not to affect the calcd. frequencies significantly. The force field obtained is consistent with the hybrid orbital force field model, although such a model has not been assumed.

Due to uncor. anharmonicities, the calcd. CH and CD vibrations show larger deviations from the exptl. values. The L⁻¹ matrices, as well as other details of the calcns., are given in the thesis. *Examiners*: Prof. M. Randić, Prof. D. Hadži, and Dr. S. Borčić. *Oral examination:* February 27, 1967.

Thesis deposited at the Central chemical library and Institute »Ruder Bošković«, Zagreb.

(63 pages, 8 figures, 12 tables, 39 references, original in Croatian)

Z. MEIĆ

MCC-30

- 1. Infrared Spectra of Methyl Mercuric Bromide. Analysis of Normal Vibrations
- I. Meić Z.
- II. Institute »Ruđer Bošković«, Zagreb, Croatia, Yugoslavia

Force constant calculation Jacobi-

ans Normal coordinates (L⁻¹ matrices) Solid state ir. and Raman spectra assignment



MCC-31

- 1. Study of Some Cycloalkanes by the Method of Maximum Overlap
- I. Maksić Z. B.
- II. Institute »Ruđer Bošković«, Zagreb, Croatia, Yugoslavia

Bond, bent — , overlap — , twisted Cycloalkanes Double zeta orbitals Hybridization Maximum overlap method Spin-spin coupling constant