

IX CONFERENCE ON THE UTILIZATION OF ULTRASONIC METHODS FOR STUDYING THE PROPERTIES OF CONDENSED MATTER Žilina (Czechoslovakia), 23-25 August, 1984

The Ninth Conference on the Utilization of Ultrasonic Methods for Studying the Properties of Condensed Matter was held on 23-25 August, 1984 in Žilina (Czechoslovakia). The Conference was sponsored by the Physics Section of the Slovak Mathematicians and Physicists Association, the Acoustic Committee (Ultrasonics Subcommission) of the Czechoslovak Academy of Sciences, and organized by the Physics Department of the Technical University of Advanced Transport and Communication Engineering in Žilina, and the Physics Institute of the Slovak Academy of Sciences in Bratislava. RNDr. S. KOŁNÍK, CSc. was the chairman of the Organizing Committee of the Conference.

Three general lectures were delivered:

- W. ARNOLD, *The generation of ultrasound by short laser pulses and its applications in physics and NDT.*
- H. J. FRÖHLICH, *Surface acoustic waves in lithium niobate-physical properties and technical applications.*
- G. SORGE, U. STRAUBE, *Ultrasonic investigation of structural phase transitions.*

The following communications were delivered:

- P. SLADKÝ, *Acoustooptic and optoacoustic effects in solids.*
- W. ARNOLD, P. DOUSSINEAU, A. LEVELUT, S. ZIOLKIEWICZ, *Elastic low-energy excitations in LiTaO_3 .*
- P. KOŠTIAL, *Study of the stability of electrographic layers by using of SAW.*
- J. LEWANDOWSKI, *Determination of metal texture from acoustic wave measurements.*
- J. LEWANDOWSKI, *Velocity of propagation and attenuation of acoustic waves in heterogeneous viscoelastic bodies.*
- P. KOŠTIAL, J. ĐURČEK, *Ultrasonic investigation of Se-Te alloys.*
- H. GAWDA, *Determination of fibres crystalline of plants from ultrasonic measurements.*
- V. N. HUDAIBERDYEV, P. K. HABIBULLAEV, S. A. BURHONOV, E. K. REZNIK, I. I. SHINDER, *Investigation of particularities found out in intermolecular interaction for glycerine ethers and esters by acoustic methods.*
- S. ERNST, K. BEBEK, E. ZOREBSKI, E. SOCZKIEWICZ, *Rheological and volume effects in highly viscous polyhydroxyalcohols.*
- J. DOMINEC, *Ultrasonic attenuation in semiconductive Bi-Sb alloys.*
- J. SLABEYCIUS, P. KOŠTIAL, *The investigation of the relaxation spectrum of amorphous layers by ultrasonic methods.*
- M. KOŠEK, J. ZELENKA, *DC electric field influence on SAW propagation at piezoelectric media.*
- H. J. FRÖHLICH, *SAW propagation in LiNbO_3 in biasing electric field.*
- K. ČAPOVÁ, I. ČÁP, *The optical investigation of the 50-MHz SAW field.*

- D. ČIPLYŠ, A. DOMARKAS, I. KRAUJALINĖ, R. RIMEIKA, *Acoustic investigation of Ti-diffused LiNbO_3 surface.*
- M. KOŠEK, *The interdigital SAW transducers analysis with use of a computer.*
- M. WEINACHT, R. WOBST, *SAW properties of layered systems.*
- G. SORGE, J. JANICH, *Ultrasonic and elastic resonance methods for investigation of phase transitions in $\text{NaH}_3(\text{SeO}_3)_2$.*
- D. VAJDA, J. KOVÁR, J. KEJST, B. BŘEZINA, *Attenuation of elastic waves in TGS crystals doped by α -alanine near the Curie point.*
- V. PETNIKOVA, *The possibilities of active nonlinear spectroscopy of inhomogeneous condensed media.*
- P. HEGEDŰŠ, C. MUSIL, S. KOLNÍK, I. ČÁP, *Velocity of ultrasonic waves in alkaline earth fluoride and rare earth fluoride mixture crystal system.*
- Ya. M. SOIFER, *The photodamping of dislocations in KCl single crystals.*
- V. I. MIRGORODSKI, *Propagation of acoustic solitons at acoustoelectric interaction.*
- S. E. ESPOV, *Nonlinear hysteretic characteristics of hot electron system due to electron-optical phonon and electron-electron interactions in semiconductors.*
- J. ŠTELINA, J. BRACINÍK, *Electric field in the sample with the amplified acoustic flux.*
- These papers will be published in Acta Physica Slovaca.

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