

FOREWORD

This volume of the Journal of Theoretical and Applied Mechanics, issued by the Bulgarian Academy of Sciences, contains the reports presented at the International Conference on Hydrodynamics of Technological Processes for Materials Production (THD-91). The Conference was held at the "Elitza hotel" situated in the Vitosha Mountains near the city of Sofia from August 27 to August 31, 1991. The meeting was attended by 41 participants from Russia, Japan, Germany, USA, Yugoslavia and Bulgaria.

The Conference provided possibilities for fruitful talks on the following main topics:

- Hydrodynamics, Heat and Mass Transfer in Electronic Materials Processing,
- Hydrodynamics and Heat Transfer in Glass and Polymer Processing,
- Hydrodynamics, Heat and Mass Transfer in Metallurgical Processes,
- Algorithms and Numerical Models in Technological Hydrodynamics.

The technological processes under consideration were:

- crystal growth from melt and vapour,
- solidification in melts, metals and alloys,
- polymer and optical fiber formation.

The meeting was organized by the Institute of Mechanics and Biomechanics and the Union for Mechanical Engineering. The Institute for Problems in Mechanics of the Russian Academy of Sciences in Moscow provided assistance informing the Russian scientists about the Conference.

The Conference was kindly sponsored by the Ministry of Education, the National Committee of Theoretical and Applied Mechanics, the Union of Bulgarian Mathematicians, the Institute of Mathematics, the Institute for Metal Science and Technology, the Institute of Hydrotechnics and Melioration, the Faculty of Mathematics and Informatics, the Institute for Semiconductor Physics and Technology, BANIMPEX, Firm "Decart", Bank Service – Sofia, Balkanbank – Stara Zagora.

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