Preface

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PREFACE

Following the tradition of the previous Conference EQUADIFF 1—5, held periodically in Prague (1962, 1977), Bratislava (1966, 1981) and Brno (1972), The 6th Czechoslovak Conference on Differential Equations and Their Applications EQUADIFF 6 was held in Brno from August 26 to August 30, 1985. The Conference was organized by the University of J. E. Purkyně in Brno with support of the International Mathematical Union in cooperation with the Technical University in Brno, the Mathematical Institut of the Czechoslovak Academy of Sciences, Society of Czechoslovak Mathematicians and Physicists, sponsored by the Faculty of Mathematics and Physics of the Charles University in Prague, the Faculty of Mathematics and Physics of the Comenius University in Bratislava, the Czech Technical University in Prague, the Faculty of Science of the Palacký University in Olomouc, the Faculty of Science of the University of P. J. Šafarik in Košice, the School of Mechanical and Electrotechnical Engineering in Plzeň and the School of Transport and Communications in Žilina.

EQUADIFF 6 was prepared by the Organizing Committee president by M. Zlámal, chairman, and J. Vosmanský, executive secretary, with the help of the local organizing staff.

The topic of this meeting were differential equations in the broad sense including numerical methods of their solutions and applications. The main goal was to stimulate cooperation among various branches in differential equations.

The Conference was attended by 473 participants (207 from Czechoslovakia, 266 from abroad) and 62 accompanying persons from 31 countries. 36 participants from abroad were granted the financial support.

92 invited mathematicians from abroad took part in the Conference and together with Czechoslovak scientists delivered plenary lectures and other invited lectures and communications in sections. The participants had the opportunity to deliver their papers as communications, at the poster session or in the form of the enlarged abstracts (without oral presentation).

The scientific program comprised 10 plenary lectures and 64 main lectures in the following sections:

1. Ordinary Differential Equations (20)
2. Partial Differential Equations   (16)
3. Numerical Methods   (14)
4. Applications   (14)

In addition 251 papers were presented

ı) as communications in 9 simultaneous subsections (136)
ɔ) at the poster session (46)
ɔ) in the form of enlarged abstracts (70)

Besides the scientific program the participants and the accompanying persons could enjoy a rich social program.

Two slightly different parallel editions of this volume are published. The Springer-Verlag edition contains 9 plenary lectures and 48 main lectures in sections representing the substantial part of lectures presented at the Conference. The EQUADIFF 6 edition for the participants of the Conference and for the socialist countries contains also Supplement consisting of 7 additional contributions. These contributions are not fully compatible with the conditions for the Lecture Notes publication and their revised version could not be arranged.

Editors