

# Aplikace matematiky

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Symposium on basic problems of numerical analysis

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## SYMPOSIUM ON BASIC PROBLEMS OF NUMERICAL ANALYSIS

The Mathematical Institute of the Czechoslovak Academy of Sciences sponsored a symposium on the basic problems of numerical analysis, held on *September 22—25, 1964* at *Liblice* near Prague. Each conference day was devoted to one of the following topics:

September 22: Optimization of numerical methods

Invited lecture: C. Л. СОБОЛЕВ (S. L. SOBOLEV), I. BABUŠKA, *Оптимизация численных методов* (Optimization of numerical processes; lecture read in Russian by S. L. Sobolev, summarized in German by I. Babuška)

September 23: Numerical stability

Invited lectures: E. VITÁSEK, *Stability of numerical processes*; A. Н. ТИХОНОВ (A. N. TICHONOV), *Об эффективных методах решения некорректных задач* (Effective solution methods for non-correct numerical problems)

September 24: Relaxation methods in differential equations

Invited lectures: A. А. САМАРСКИЙ (A. A. SAMARSKII), *О разностных схемах для многомерных дифференциальных уравнений математической физики* (Difference methods for multidimensional differential equations in mathematical physics); L. COLLATZ, *Über einige neuere Entwicklungen bei Differenzenverfahren für Randwertaufgaben partieller Differentialgleichungen* (New developments of difference methods in partial differential boundary-value problems)

September 25: Problems of linear algebra, eigenvalue problems

Invited lectures: F. L. BAUER, *Numerische Abschätzung und Berechnung von Eigenwerten nichtsymmetrischer Matrizen* (Numerical estimates and computation of eigenvalues of nonsymmetric matrices); M. FIEDLER, *Some remarks on numerical solution of linear problems*

The conference was opened by an address by I. BABUŠKA as chairman of the organizing committee, and by V. KNICHAL, director of the Mathematical Institute of the Academy.

In addition to the invited lectures, 29 communications were delivered. Substantial parts of the afternoon sessions were devoted to discussion.

The symposium was attended by 50 Czechoslovak mathematicians and 26 foreign participants from GDR, GFR, Hungary, USSR, USA, West-Berlin and Yugoslavia.

A number of valuable results was presented at the symposium. In conclusion, a number of participants suggested that a conference devoted to similar problems should be held biennially.

The present issue of our journal contains the texts of the invited lectures (except that of A. N. Tichonov not received from the author); these may be considered as contributions to determining the main directions of further development of numerical analysis. The next issue will contain texts of the communications.