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Preface

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P R E F A C E

These Proceedings contain the lectures presented at the Spring School

"Nonlinear Analysis, Function Spaces and Applications III"

held in May 19 - 23, 1986 in *Litomyšl* (Eastern Bohemia) and organized by the Mathematical Institute of the Czechoslovak Academy of Sciences and by the Technical University Plzeň.

The School has continued the preceding two held under the same name in Horní Bradlo, 1978, and in Písek, 1982, the Proceedings of which were published by the TEUBNER Publishing House, Leipzig, in 1979 and 1982 as volumes 19 and 49, respectively, of the series "Teubner-Texte zur Mathematik". Simultaneously, it was the tenth in a series of conferences organized alternately in Czechoslovakia and the German Democratic Republic under the cooperation of the Mathematical Institutes of the Academies of Sciences of both countries.

Analogously as in the foregoing Spring Schools, the organizers concentrated on survey lectures presented by a smaller number of speakers. In spite of some unforeseen changes, eventually ten invited speakers delivered six 3-4 hour lectures, two 2-hour and two one-hour lectures, and one one-hour lecture was held by a participant of the School. With the exception of two contributions, all lectures are contained in this volume - in two cases at least in the form of a short summary. A full list of lectures can be found at the end of the content.

The Spring School took place in the pleasant setting of the old Czech town *Litomyšl* and a concert of old music, delivered by the *Rožmberk ensemble* in the old theatre of the *Litomyšl* castle and played on historical instruments, formed an important part of the program of the School. A list of participants is included at the end of the volume; the total number was 105 mathematicians and 2 accompanying persons from 15 countries: Australia (1), Belgium (1), Bulgaria (4), Canada (1), Federal Republic of Germany (3), German Democratic Republic (14), Poland (6), Romania (6), Sweden (11), Switzerland (1), U.S.A. (3), USSR (2), Vietnam (1), Yugoslavia (2), Czechoslovakia (49).

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The Editors