Foreword

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This collection of papers commemorates the 110th anniversary of Academician Sergei Mikhailovich Nikol'skii (1905–2012), an outstanding Russian mathematician.

Nikol'skii was one of the greatest specialists in mathematical analysis and its applications. He made an invaluable contribution to approximation theory and to the study of classes of differentiable functions of several variables, as well as to partial differential equations, functional analysis, and numerical methods.

In all these fields, the studies by Nikol'skii left a profound mark and largely predetermined the further development.

Nikol'skii was three times awarded the USSR State Prize, twice awarded a prize of the Government of the Russian Federation, and awarded the State Prize of Ukraine.

He received the Chebyshev Prize of the USSR Academy of Sciences, the Kolmogorov Prize and the Vinogradov gold medal of the Russian Academy of Sciences, the Bolzano medal (Czechoslovakia), the Copernicus Prize (Poland), and the Ostrogradskii Prize (Ukraine). Nikol'skii was also presented with high Soviet and Russian government awards.

Nikol'skii was continuously and actively involved in organizing scientific events and promoting scientific investigations in the Russian Academy of Sciences.

For many years Nikol'skii delivered various mathematics courses at the Dnepropetrovsk and Moscow State Universities and at the Moscow Institute of Physics and Technology. Nikol'skii devoted much effort and energy to teaching and educating young scientists.

The wide range of scientific interests, attentiveness to people, and extreme friendliness of Nikol'skii attracted both mature and young mathematicians, who appreciated his care and support.

The authors of the articles in this collection—Nikol'skii's former colleagues and students—dedicate their papers to the blessed memory of S.M. Nikol'skii.