

Translator's Preface

The history of this book is somewhat unusual. Originally it was written in Leningrad in Russian, at the end of the seventies. Submitted to the Soviet publishing house "Nauka", it was rejected for political reasons and never appeared in Russian. The manuscript was smuggled to East Germany by friends of the authors, translated into German, and published in 1981 under the title "*Abschätzungen für Differentialoperatoren im Halbraum*" by Akademie-Verlag Berlin. In 1982, the German edition was reprinted by Birkhäuser Verlag. Now, almost forty years later, the English-speaking readers can also become familiar with this interesting book.

The book is devoted to a detailed study of numerous inequalities for differential operators with constant coefficients in a half-space. Although many years have passed since the book was written, the presented results are not outdated. They are in definitive form, without any restriction on the type of differential operators. Moreover, the presented inequalities open perspectives for possible generalizations to operators in other domains and operators with variable coefficients, as well as to pseudo-differential operators.

D. Apushkinskaya