Preface to the Present Volume

This volume consists of most recent papers in number theory specially collected for it. They are basically original, while some have partly expository character. The authors vary from the youngest mathematicians to experienced, and the articles, which are mutually independent and are not related to a particular symposium, range extensively over many branches of contemporary number theory such as generalization of class field theory, diophantine inequalities, modular forms of one or several variables, spectral theory of Laplacians, trace formulas, diophantine approximation, Kronecker's limit formula, quadratic forms, p-adic analysis, special number fields, and computational tabulation.

For specialists of number theory, this volume will furnish convenient and precise references on various branches of number theory which are not easily available elsewhere, for young mathematicians, it will help them to find important and unsolved problems in number theory, and, for students, it will serve as a stimulating supplement to textbooks because of abundant topics contained. In short, this volume is comprehensively and effectively utilizable by all mathematicians interested in number theory in multiple ways.

Tomio KUBOTA

Editor of the present volume