

# Survey on Classical Inequalities

# Mathematics and Its Applications

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# Survey on Classical Inequalities

*by*

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## Preface

*Survey on Classical Inequalities* provides a study of some of the well known inequalities in classical mathematical analysis. Subjects dealt with include: Hardy–Littlewood–type inequalities, Hardy's and Carleman's inequalities, Lyapunov inequalities, Shannon's and related inequalities, generalized Shannon functional inequality, operator inequalities associated with Jensen's inequality, weighted  $L_p$ -norm inequalities in convolutions, inequalities for polynomial zeros as well as applications in a number of problems of pure and applied mathematics.

It is my pleasure to express my appreciation to the distinguished mathematicians who contributed to this volume. Finally, we wish to acknowledge the superb assistance provided by the staff of Kluwer Academic Publishers.

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Themistocles M. Rassias