Modular Forms: A Classical and Computational Introduction

Lloyd Kilford

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This book presents a graduate student-level introduction to the classical theory of modular forms and computations involving modular forms, including modular functions and the theory of Hecke operators. It also includes applications of modular forms to such diverse subjects as the theory of quadratic forms, the proof of Fermat s last theorem and the approximation of *pi*. It provides a balanced overview of both the theoretical and computational sides of the subject, allowing a variety of courses to be taught from it.

Contents: Historical Overview; Introduction to Modular Forms; Results on Finite-Dimensionality; The Arithmetic of Modular Forms; Applications of Modular Forms; Modular Forms in Characteristic *p*; Computing with Modular Forms; ***Appendices:***; MAGMA Code for Classical Modular Forms; SAGE Code for Classical Modular Forms; Hints and Answers to Selected Exercises.

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