

[DOWNLOAD](#)

A Course in Arithmetic (Hardback)

By Jean-Pierre Serre

Springer-Verlag New York Inc., United States, 1996. Hardback. Condition: New. Language: English . Brand New Book. This book is divided into two parts. The first one is purely algebraic. Its objective is the classification of quadratic forms over the field of rational numbers (Hasse-Minkowski theorem). It is achieved in Chapter IV. The first three chapters contain some preliminaries: quadratic reciprocity law, p-adic fields, Hilbert symbols. Chapter V applies the preceding results to integral quadratic forms of discriminant ± 1 . These forms occur in various questions: modular functions, differential topology, finite groups. The second part (Chapters VI and VII) uses analytic methods (holomorphic functions). Chapter VI gives the proof of the theorem on arithmetic progressions due to Dirichlet; this theorem is used at a critical point in the first part (Chapter III, no. 2.2). Chapter VII deals with modular forms, and in particular, with theta functions. Some of the quadratic forms of Chapter V reappear here. The two parts correspond to lectures given in 1962 and 1964 to second year students at the Ecole Normale Supérieure. A redaction of these lectures in the form of duplicated notes, was made by J.-J. Sansuc (Chapters I-IV) and J.-P. Ramis and G. Ruget...

[READ ONLINE](#)[\[1.61 MB \]](#)

Reviews

This composed ebook is wonderful. It really is written in basic words rather than hard to understand. You may like the way the writer compose this pdf.
-- **Ryder Nolan**

This book can be well worth a go through, and a lot better than other. It is written in simple words and phrases and not confusing. It's been printed in an exceptionally simple way in fact it is merely right after I finished reading through this pdf by which basically changed me, modify the way I think.
-- **Margot Carter V**