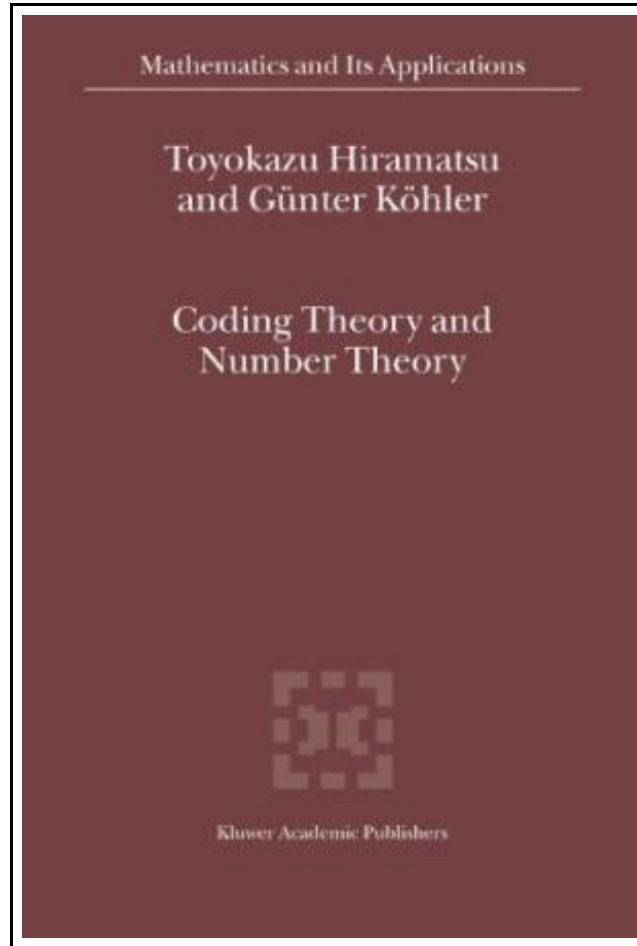


## Coding Theory and Number Theory



Filesize: 7.6 MB

### ***Reviews***

*Basically no phrases to describe. I was able to comprehend everything out of this published ebook. You can expect to like the way the author compose this ebook.*  
*(Mrs. Novella Will)*

## CODING THEORY AND NUMBER THEORY

DOWNLOAD



Springer. Paperback. Book Condition: New. Paperback. 148 pages. Dimensions: 9.0in. x 6.1in. x 0.6in. This book grew out of our lectures given in the Oberseminar on Coding Theory and Number Theory at the Mathematics Institute of the Würzburg University in the Summer Semester, 2001. The coding theory combines mathematical elegance and some engineering problems to an unusual degree. The major advantage of studying coding theory is the beauty of this particular combination of mathematics and engineering. In this book we wish to introduce some practical problems to the mathematician and to address these as an essential part of the development of modern number theory. The book consists of five chapters and an appendix. Chapter 1 may mostly be dropped from an introductory course of linear codes. In Chapter 2 we discuss some relations between the number of solutions of a diagonal equation over finite fields and the weight distribution of cyclic codes. Chapter 3 begins by reviewing some basic facts from elliptic curves over finite fields and modular forms, and shows that the weight distribution of the Melas codes is represented by means of the trace of the Hecke operators acting on the space of cusp forms. Chapter 4 is a systematic study of the algebraic-geometric codes. For a long time, the study of algebraic curves over finite fields was the province of pure mathematicians. In the period 1977 - 1982, V. D. Goppa discovered an amazing connection between the theory of algebraic curves over finite fields and the theory of  $q$ -ary codes. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



[Read Coding Theory and Number Theory Online](#)



[Download PDF Coding Theory and Number Theory](#)

## Relevant PDFs

---



### **Molly on the Shore, BFMS 1 Study score**

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 26 pages. Dimensions: 9.7in. x 6.9in. x 0.3in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English...

[Download PDF »](#)

---



### **Shepherds Hey, Bfms 16: Study Score**

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 22 pages. Dimensions: 9.4in. x 7.1in. x 0.0in.Percy Grainger, like his contemporary Bela Bartok, was intensely interested in folk music and became a member of the English...

[Download PDF »](#)

---



### **Magnificat in D Major, Bwv 243 Study Score Latin Edition**

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 70 pages. Dimensions: 9.8in. x 7.2in. x 0.3in.Bach composed the first version of this piece in 1723 using the key of E-flat major for the Christmas Vespers...

[Download PDF »](#)

---



### **Scala in Depth**

Manning Publications. Paperback. Book Condition: New. Paperback. 304 pages. Dimensions: 9.2in. x 7.3in. x 0.8in.Summary Scala in Depth is a unique new book designed to help you integrate Scala effectively into your development process. By...

[Download PDF »](#)

---



### **A Sea Symphony - Study Score**

Petrucci Library Press. Paperback. Book Condition: New. Paperback. 324 pages. Dimensions: 9.6in. x 6.7in. x 0.7in.Vaughan Williams conducted the first performance of his great choral symphony on his 38th birthday, October 12, 1910, at the...

[Download PDF »](#)