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 P. J. Cameron and J. H. van Lint
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Graphs, Codes and Designs

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Contents

	Preface	vii
1.	A brief introduction to design theory	1
2.	Strongly regular graphs	16
3.	Quasi-symmetric designs	25
4.	Partial geometries	32
5.	Strongly regular graphs with no triangles	37
6.	Polarities of designs	45
7.	Extensions of graphs	49
8.	1-factorisations of K_6	56
9.	Codes	61
10.	Cyclic codes	68
11.	Threshold decoding	74
12.	Finite geometries and codes	76
13.	Self-orthogonal codes, designs and projective planes	84
14.	Quadratic residue codes	95
15.	Symmetry codes over $GF(3)$	107
16.	Nearly perfect binary codes and uniformly packed codes	113
17.	Association schemes	124
	References	136
	Index	145

Preface

The predecessor of this book (London Mathematical Society Lecture Note Series 19) had its origin in several short courses of lectures given by the authors at Westfield College, London, in 1973. The audience for the lectures consisted mainly of design theorists, and the aim was to present developments in graph theory and coding theory having a bearing on design theory. An introductory chapter on designs was added, for the benefit of readers without the background of the Westfield audience.

For the present volume, the format has been kept, but extensive revisions and updatings have been made. New material includes ovals in symmetric designs (Chapters 1 and 13), the inequalities of Ray-Chaudhuri and Wilson (Chapter 1), partial geometries, with the Hoffman-Chang and Hall-Connor theorems (Chapter 4), 1-factorisations of K_6 (Chapter 8), equidistant codes (Chapter 12), planes and biplanes (Chapter 13), generalised quadratic residue codes and inversive planes (Chapter 14), two-weight projective codes (Chapter 16), and the Krein bound (Chapter 17).