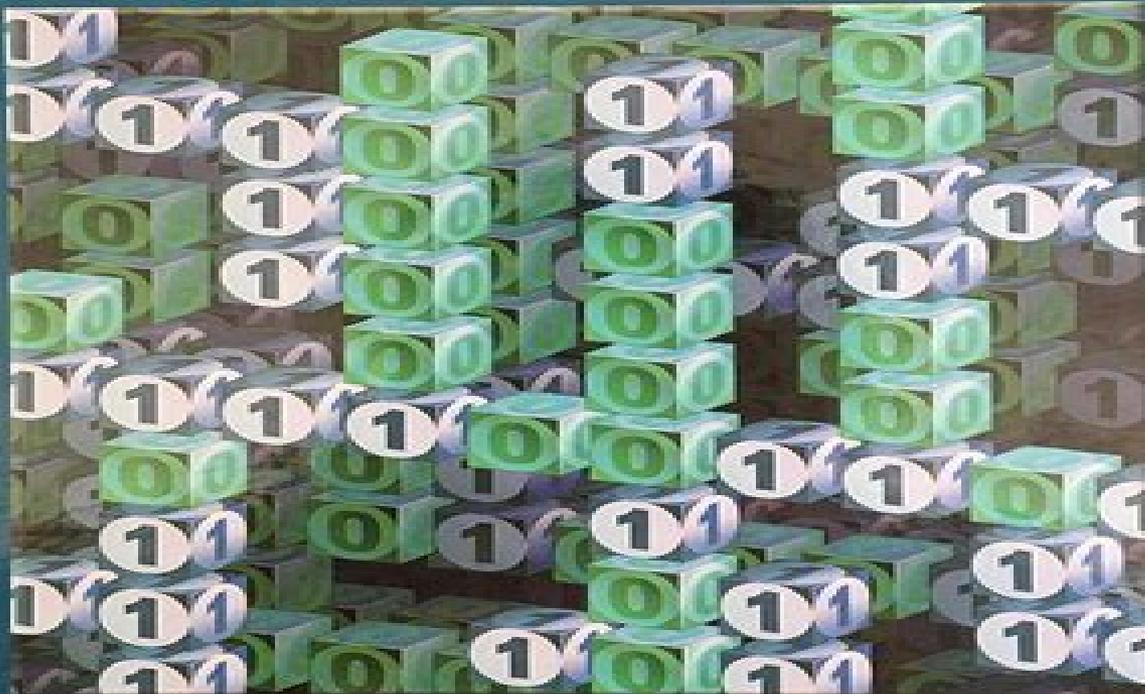


**DISCRETE and
COMBINATORIAL
MATHEMATICS** *An Applied Introduction*



Ralph P. Grimaldi

Fifth Edition

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Rajendra Akerkar,Rupali Akerkar

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Discrete and combinatorial mathematics Ralph P. Grimaldi, 1986

Sets, Logic and Maths for Computing David Makinson, 2009-06-29 The first part of this preface is for the student the second for the instructor But whoever you are welcome to both parts For the Student You have finished secondary school and are about to begin at a university or technical college You want to study computing The course includes some mathematics and that was not necessarily your favourite subject But there is no escape some finite mathematics is a required part of the first year curriculum That is where this book comes in Its purpose is to provide the basics the essentials that you need to know to understand the mathematical language that is used in computer and information science It does not contain all the mathematics that you will need to look at through the several years of your undergraduate career There are other very good massive volumes that do that At some stage you will probably find it useful to get one and keep it on your shelf for reference But experience has convinced this author that no matter how good the compendia are beginning students tend to feel intimidated lost and unclear about what parts to focus on This short book on the other hand offers just the basics which you need to know from the beginning and on which you can build further when needed

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is a collection of loosely connected topics in areas of mathematics that particularly interest me ranging over the two millennia from the work of Archimedes who died in the year 212 Be to the Werke of Gauss who was born in 1777 although there are some references outside this period In view of its title I must emphasize that this book is certainly not pretending to be a comprehensive history of the mathematics of this period or even a complete account of the topics discussed However every chapter is written with the history of its topic in mind It is fascinating for example to follow how both Napier and Briggs constructed their log arithms before many of the most relevant mathematical ideas had been discovered Do I really mean discovered There is an old question Is mathematics created or discovered Sometimes it seems a shame not to use the word create in praise of the first mathematician to write down some outstanding result Yet the inner harmony that sings out from the best of mathematics seems to demand the word discover

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