

# SCHAUM'S OUTLINE OF PROBABILITY AND STATISTICS

## 4TH EDITION

TEXT BOOK OF PROBABILITY AND THEORETICAL DISTRIBUTION BASIC PRINCIPLES AND APPLICATIONS  
OF PROBABILITY THEORY ELEMENTS OF PROBABILITY AND STATISTICS THEORY OF PROBABILITY AND  
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K. SHARMA VALERIY SKOROKHOD STEVEN A. LIPPMAN LEONID KORALOV FRANCESCA BIAGINI BORIS  
VLADIMIROVICH GNEDENKO FRIEDRICH SCHLEGEL CAIN MCKAY BORIS VLADIMIROVICH GNEDENKO M. M.  
WOOLFSON BRUNO DE FINETTI EUGENE LUKACS DAVID APPLEBAUM TERRENCE L. FINE JOHN L.  
POLLOCK RONALD MEESTER DONALD GILLIES WILLIAM FELLER HAROLD JEFFREYS PAUL E. PFEIFFER  
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PROBABILITY AND FORENSIC EVIDENCE PHILOSOPHICAL THEORIES OF PROBABILITY AN INTRODUCTION  
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THIS BOOK PROBABILITY AND THEORETICAL DISTRIBUTIONS IS AN OUTCOME OF AUTHOR'S LONG  
TEACHING EXPERIENCE OF THE SUBJECT THIS BOOK PRESENTS A THOROUGH TREATMENT OF WHAT IS  
REQUIRED FOR THE STUDENTS OF B.A. B.Sc. OF VARIOUS UNIVERSITIES IT INCLUDES FUNDAMENTAL  
CONCEPTS ILLUSTRATED EXAMPLES AND APPLICATION TO VARIOUS PROBLEMS CONTENTS PROBABILITY  
AND EXPECTED VALUE THEORETICAL DISTRIBUTIONS

THE BOOK IS AN INTRODUCTION TO MODERN PROBABILITY THEORY WRITTEN BY ONE OF THE FAMOUS  
EXPERTS IN THIS AREA READERS WILL LEARN ABOUT THE BASIC CONCEPTS OF PROBABILITY AND ITS  
APPLICATIONS PREPARING THEM FOR MORE ADVANCED AND SPECIALIZED WORKS

A ONE YEAR COURSE IN PROBABILITY THEORY AND THE THEORY OF RANDOM PROCESSES TAUGHT AT  
PRINCETON UNIVERSITY TO UNDERGRADUATE AND GRADUATE STUDENTS FORMS THE CORE OF THIS  
BOOK IT PROVIDES A COMPREHENSIVE AND SELF-CONTAINED EXPOSITION OF CLASSICAL PROBABILITY  
THEORY AND THE THEORY OF RANDOM PROCESSES THE BOOK INCLUDES DETAILED DISCUSSION OF  
LEBESGUE INTEGRATION MARKOV CHAINS RANDOM WALKS LAWS OF LARGE NUMBERS LIMIT THEOREMS  
AND THEIR RELATION TO RENORMALIZATION GROUP THEORY IT ALSO INCLUDES THE THEORY OF  
STATIONARY RANDOM PROCESSES MARTINGALES GENERALIZED RANDOM PROCESSES AND BROWNIAN  
MOTION

THIS BOOK PROVIDES AN INTRODUCTION TO ELEMENTARY PROBABILITY AND TO BAYESIAN STATISTICS

USING DE FINETTI'S SUBJECTIVIST APPROACH ONE OF THE FEATURES OF THIS APPROACH IS THAT IT DOES NOT REQUIRE THE INTRODUCTION OF SAMPLE SPACE A NON INTRINSIC CONCEPT THAT MAKES THE TREATMENT OF ELEMENTARY PROBABILITY UNNECESSARILY COMPLICATE BUT INTRODUCES AS FUNDAMENTAL THE CONCEPT OF RANDOM NUMBERS DIRECTLY RELATED TO THEIR INTERPRETATION IN APPLICATIONS EVENTS BECOME A PARTICULAR CASE OF RANDOM NUMBERS AND PROBABILITY A PARTICULAR CASE OF EXPECTATION WHEN IT IS APPLIED TO EVENTS THE SUBJECTIVE EVALUATION OF EXPECTATION AND OF CONDITIONAL EXPECTATION IS BASED ON AN ECONOMIC CHOICE OF AN ACCEPTABLE BET OR PENALTY THE PROPERTIES OF EXPECTATION AND CONDITIONAL EXPECTATION ARE DERIVED BY APPLYING A COHERENCE CRITERION THAT THE EVALUATION HAS TO FOLLOW THE BOOK IS SUITABLE FOR ALL INTRODUCTORY COURSES IN PROBABILITY AND STATISTICS FOR STUDENTS IN MATHEMATICS INFORMATICS ENGINEERING AND PHYSICS

THIS COMPACT VOLUME EQUIPS THE READER WITH ALL THE FACTS AND PRINCIPLES ESSENTIAL TO A FUNDAMENTAL UNDERSTANDING OF THE THEORY OF PROBABILITY IT IS AN INTRODUCTION NO MORE THROUGHOUT THE BOOK THE AUTHORS DISCUSS THE THEORY OF PROBABILITY FOR SITUATIONS HAVING ONLY A FINITE NUMBER OF POSSIBILITIES AND THE MATHEMATICS EMPLOYED IS HELD TO THE ELEMENTARY LEVEL BUT WITHIN ITS PURPOSELY RESTRICTED RANGE IT IS EXTREMELY THOROUGH WELL ORGANIZED AND ABSOLUTELY AUTHORITATIVE IT IS THE ONLY ENGLISH TRANSLATION OF THE LATEST REVISED RUSSIAN EDITION AND IT IS THE ONLY CURRENT TRANSLATION ON THE MARKET THAT HAS BEEN CHECKED AND APPROVED BY GNEDENKO HIMSELF AFTER EXPLAINING IN SIMPLE TERMS THE MEANING OF THE CONCEPT OF PROBABILITY AND THE MEANS BY WHICH AN EVENT IS DECLARED TO BE IN PRACTICE IMPOSSIBLE THE AUTHORS TAKE UP THE PROCESSES INVOLVED IN THE CALCULATION OF PROBABILITIES THEY SURVEY THE RULES FOR ADDITION AND MULTIPLICATION OF PROBABILITIES THE CONCEPT OF CONDITIONAL PROBABILITY THE FORMULA FOR TOTAL PROBABILITY BAYES'S FORMULA BERNOULLI'S SCHEME AND THEOREM THE CONCEPTS OF RANDOM VARIABLES INSUFFICIENCY OF THE MEAN VALUE FOR THE CHARACTERIZATION OF A RANDOM VARIABLE METHODS OF MEASURING THE VARIANCE OF A RANDOM VARIABLE THEOREMS ON THE STANDARD DEVIATION THE CHEBYSHEV

INEQUALITY NORMAL LAWS OF DISTRIBUTION DISTRIBUTION CURVES PROPERTIES OF NORMAL DISTRIBUTION CURVES AND RELATED TOPICS THE BOOK IS UNIQUE IN THAT WHILE THERE ARE SEVERAL HIGH SCHOOL AND COLLEGE TEXTBOOKS AVAILABLE ON THIS SUBJECT THERE IS NO OTHER POPULAR TREATMENT FOR THE LAYMAN THAT CONTAINS QUITE THE SAME MATERIAL PRESENTED WITH THE SAME DEGREE OF CLARITY AND AUTHENTICITY ANYONE WHO DESIRES A FUNDAMENTAL GRASP OF THIS INCREASINGLY IMPORTANT SUBJECT CANNOT DO BETTER THAN TO START WITH THIS BOOK NEW PREFACE FOR DOVER EDITION BY B V GNEDENKO

THIS CLASSIC BOOK IS INTENDED TO BE THE FIRST INTRODUCTION TO PROBABILITY AND STATISTICS WRITTEN WITH AN EMPHASIS ON THE ANALYTIC APPROACH TO THE PROBLEMS DISCUSSED TOPICS OF THIS BOOK INCLUDE THE AXIOMATIC SETUP OF PROBABILITY THEORY POLYNOMIAL DISTRIBUTION FINITE MARKOV CHAINS DISTRIBUTION FUNCTIONS AND CONVOLUTION THE LAWS OF LARGE NUMBERS WEAK AND STRONG CHARACTERISTIC FUNCTIONS THE CENTRAL LIMIT THEOREM INFINITELY DIVISIBLE DISTRIBUTIONS AND MARKOV PROCESSES WRITTEN IN A CLEAR AND CONCISE STYLE THIS BOOK BY GNEDENKO CAN SERVE AS A TEXTBOOK FOR UNDERGRADUATE AND GRADUATE COURSES IN PROBABILITY

PROBABILITY AND STATISTICS IMPINGE ON THE LIFE OF THE AVERAGE PERSON IN A VARIETY OF WAYS AS IS SUGGESTED BY THE TITLE OF THIS BOOK VERY OFTEN INFORMATION IS PROVIDED THAT IS FACTUALLY ACCURATE BUT INTENDED TO PRESENT A BIASED VIEW THIS BOOK PRESENTS THE IMPORTANT RESULTS OF PROBABILITY AND STATISTICS WITHOUT MAKING HEAVY MATHEMATICAL DEMANDS ON THE READER IT SHOULD ENABLE AN INTELLIGENT READER TO PROPERLY ASSESS STATISTICAL INFORMATION AND TO UNDERSTAND THAT THE SAME INFORMATION CAN BE PRESENTED IN DIFFERENT WAYS

CONCERNING CERTAINTY AND UNCERTAINTY PREVISION AND PROBABILITY CONDITIONAL PREVISION AND PROBABILITY THE EVALUATION OF PROBABILITIES DISTRIBUTIONS A PRELIMINARY SURVEY RANDOM PROCESSES WITH INDEPENDENT INCREMENTS AN INTRODUCTION TO OTHER TYPES OF STOCHASTIC

PROCESS PROBLEMS IN HIGHER DIMENSIONS INDUCTIVE REASONING STATISTICAL INFERENCE  
MATHEMATICAL STATISTICS

PROBABILITY AND MATHEMATICAL STATISTICS AN INTRODUCTION PROVIDES A WELL BALANCED FIRST  
INTRODUCTION TO PROBABILITY THEORY AND MATHEMATICAL STATISTICS THIS BOOK IS ORGANIZED  
INTO TWO SECTIONS ENCOMPASSING NINE CHAPTERS THE FIRST PART DEALS WITH THE CONCEPT AND  
ELEMENTARY PROPERTIES OF PROBABILITY SPACE AND RANDOM VARIABLES AND THEIR PROBABILITY  
DISTRIBUTIONS THIS PART ALSO CONSIDERS THE PRINCIPLES OF LIMIT THEOREMS THE DISTRIBUTION OF  
RANDOM VARIABLES AND THE SO CALLED STUDENT'S DISTRIBUTION THE SECOND PART EXPLORES  
PERTINENT TOPICS IN MATHEMATICAL STATISTICS INCLUDING THE CONCEPT OF SAMPLING ESTIMATION  
AND HYPOTHESES TESTING THIS BOOK IS INTENDED PRIMARILY FOR UNDERGRADUATE STATISTICS  
STUDENTS

THIS ELEMENTARY INTRODUCTION TO PROBABILITY THEORY AND INFORMATION THEORY IS SUITABLE AS  
A TEXTBOOK FOR BEGINNING STUDENTS IN MATHEMATICS STATISTICS OR COMPUTER SCIENCE WHO  
HAVE SOME KNOWLEDGE OF BASIC CALCULUS IT PROVIDES A CLEAR AND SYSTEMATIC FOUNDATION  
TO THE SUBJECT THE CONCEPT OF PROBABILITY IS GIVEN PARTICULAR ATTENTION VIA A HIGHLY  
SIMPLIFIED DISCUSSION OF MEASURES ON BOOLEAN ALGEBRAS THE THEORETICAL IDEAS ARE THEN  
APPLIED TO PRACTICAL AREAS SUCH AS STATISTICAL INFERENCE RANDOM WALKS STATISTICAL  
MECHANICS AND COMMUNICATIONS MODELLING TOPICS DEALT WITH INCLUDE DISCRETE AND  
CONTINUOUS RANDOM VARIABLES ENTROPY AND MUTUAL INFORMATION MAXIMUM ENTROPY METHODS  
THE CENTRAL LIMIT THEOREM AND THE CODING AND TRANSMISSION OF INFORMATION MANY EXAMPLES  
AND EXERCISES ARE INCLUDED THAT ILLUSTRATE HOW THE THEORY CAN BE APPLIED FOR EXAMPLE  
TO INFORMATION TECHNOLOGY DETAILED SOLUTIONS TO MOST EXERCISES ARE AVAILABLE  
ELECTRONICALLY FROM THE CAMBRIDGE WWW SERVER

THEORIES OF PROBABILITY AN EXAMINATION OF FOUNDATIONS REVIEWS THE THEORETICAL  
FOUNDATIONS OF PROBABILITY WITH EMPHASIS ON CONCEPTS THAT ARE IMPORTANT FOR THE

MODELING OF RANDOM PHENOMENA AND THE DESIGN OF INFORMATION PROCESSING SYSTEMS TOPICS COVERED RANGE FROM AXIOMATIC COMPARATIVE AND QUANTITATIVE PROBABILITY TO THE ROLE OF RELATIVE FREQUENCY IN THE MEASUREMENT OF PROBABILITY COMPUTATIONAL COMPLEXITY AND RANDOM SEQUENCES ARE ALSO DISCUSSED COMPRISED OF NINE CHAPTERS THIS BOOK BEGINS WITH AN INTRODUCTION TO DIFFERENT TYPES OF PROBABILITY THEORIES FOLLOWED BY A DETAILED ACCOUNT OF AXIOMATIC FORMALIZATIONS OF COMPARATIVE AND QUANTITATIVE PROBABILITY AND THE RELATIONS BETWEEN THEM SUBSEQUENT CHAPTERS FOCUS ON THE KOLMOGOROV FORMALIZATION OF QUANTITATIVE PROBABILITY THE COMMON INTERPRETATION OF PROBABILITY AS A LIMIT OF THE RELATIVE FREQUENCY OF THE NUMBER OF OCCURRENCES OF AN EVENT IN REPEATED UNLINKED TRIALS OF A RANDOM EXPERIMENT AN IMPROVED THEORY FOR REPEATED RANDOM EXPERIMENTS AND THE CLASSICAL THEORY OF PROBABILITY THE BOOK ALSO EXAMINES THE ORIGIN OF SUBJECTIVE PROBABILITY AS A BY PRODUCT OF THE DEVELOPMENT OF INDIVIDUAL JUDGMENTS INTO DECISIONS FINALLY IT SUGGESTS THAT NONE OF THE KNOWN THEORIES OF PROBABILITY COVERS THE WHOLE DOMAIN OF ENGINEERING AND SCIENTIFIC PRACTICE THIS MONOGRAPH WILL APPEAL TO STUDENTS AND PRACTITIONERS IN THE FIELDS OF MATHEMATICS AND STATISTICS AS WELL AS ENGINEERING AND THE PHYSICAL AND SOCIAL SCIENCES

DEALING WITH THE SUBJECT OF PROBABILISTIC REASONING THIS TEXT ATTEMPTS TO MAKE GENERAL PHILOSOPHIC SENSE OF OBJECTIVE PROBABILITIES AND EXPLORES THEIR RELATIONSHIP TO THE PROBLEM OF INDUCTION

THIS BOOK ADDRESSES THE ROLE OF STATISTICS AND PROBABILITY IN THE EVALUATION OF FORENSIC EVIDENCE INCLUDING BOTH THEORETICAL ISSUES AND APPLICATIONS IN LEGAL CONTEXTS IT DISCUSSES WHAT EVIDENCE IS AND HOW IT CAN BE QUANTIFIED HOW IT SHOULD BE UNDERSTOOD AND HOW IT IS APPLIED AND SOMETIMES MISAPPLIED AFTER LAYING OUT THEIR PHILOSOPHICAL POSITION THE AUTHORS BEGIN WITH A DETAILED STUDY OF THE LIKELIHOOD RATIO FOLLOWING THIS GROUNDING THEY DISCUSS APPLICATIONS OF THE LIKELIHOOD RATIO TO FORENSIC QUESTIONS IN THE ABSTRACT

AND IN CONCRETE CASES THE ANALYSIS OF DNA EVIDENCE IN PARTICULAR IS TREATED IN GREAT DETAIL LATER CHAPTERS CONCERN BAYESIAN NETWORKS FREQUENTIST APPROACHES TO EVIDENCE THE USE OF BELIEF FUNCTIONS AND THE THORNY SUBJECT OF DATABASE SEARCHES AND FAMILIAL SEARCHING FINALLY THE AUTHORS PROVIDE COMMENTARY ON VARIOUS RECOMMENDATION REPORTS FOR FORENSIC SCIENCE WRITTEN TO BE ACCESSIBLE TO A WIDE AUDIENCE OF APPLIED MATHEMATICIANS FORENSIC SCIENTISTS AND SCIENTIFICALLY ORIENTED LEGAL SCHOLARS THIS BOOK IS A MUST READ FOR ALL THOSE INTERESTED IN THE MATHEMATICAL AND PHILOSOPHICAL FOUNDATIONS OF EVIDENCE AND BELIEF

THE TWENTIETH CENTURY HAS SEEN A DRAMATIC RISE IN THE USE OF PROBABILITY AND STATISTICS IN ALMOST ALL FIELDS OF RESEARCH THIS HAS STIMULATED MANY NEW PHILOSOPHICAL IDEAS ON PROBABILITY PHILOSOPHICAL THEORIES OF PROBABILITY IS THE FIRST BOOK TO PRESENT A CLEAR COMPREHENSIVE AND SYSTEMATIC ACCOUNT OF THESE VARIOUS THEORIES AND TO EXPLAIN HOW THEY RELATE TO ONE ANOTHER GILLIES ALSO OFFERS A DISTINCTIVE VERSION OF THE PROPENSITY THEORY OF PROBABILITY AND THE INTERSUBJECTIVE INTERPRETATION WHICH DEVELOPS THE SUBJECTIVE THEORY

THE NATURE OF PROBABILITY THEORY THE SAMPLE SPACE ELEMENTS OF COMBINATORIAL ANALYSIS FLUCTUATIONS IN COIN TOSSING AND RANDOM WALKS COMBINATION OF EVENTS CONDITIONAL PROBABILITY STOCHASTIC INDEPENDENCE THE BINOMIAL AND THE POISSON DISTRIBUTIONS THE NORMAL APPROXIMATION TO THE BINOMIAL DISTRIBUTION UNLIMITED SEQUENCES OF BERNOULLI TRIALS RANDOM VARIABLES EXPECTATION LAWS OF LARGE NUMBERS INTEGRAL VALUED VARIABLES GENERATING FUNCTIONS COMPOUND DISTRIBUTIONS BRANCHING PROCESSES RECURRENT EVENTS RENEWAL THEORY RANDOM WALK AND RUIN PROBLEMS MARKOV CHAINS ALGEBRAIC TREATMENT OF FINITE MARKOV CHAINS THE SIMPLEST TIME DEPENDENT STOCHASTIC PROCESSES ANSWER TO PROBLEMS INDEX

ANOTHER TITLE IN THE REISSUED OXFORD CLASSIC TEXTS IN THE PHYSICAL SCIENCES SERIES JEFFREY'S THEORY OF PROBABILITY FIRST PUBLISHED IN 1939 WAS THE FIRST TO DEVELOP A FUNDAMENTAL

THEORY OF SCIENTIFIC INFERENCE BASED ON THE IDEAS OF BAYESIAN STATISTICS HIS IDEAS WERE WAY AHEAD OF THEIR TIME AND IT IS ONLY IN THE PAST TEN YEARS THAT THE SUBJECT OF BAYES FACTORS HAS BEEN SIGNIFICANTLY DEVELOPED AND EXTENDED UNTIL RECENTLY THE TWO SCHOOLS OF STATISTICS BAYESIAN AND FREQUENTIST WERE DISTINCTLY DIFFERENT AND SET APART RECENT WORK AIDED BY INCREASED COMPUTER POWER AND AVAILABILITY HAS CHANGED ALL THAT AND TODAY S GRADUATE STUDENTS AND RESEARCHERS ALL REQUIRE AN UNDERSTANDING OF BAYESIAN IDEAS THIS BOOK IS THEIR STARTING POINT

USING THE KOLMOGOROV MODEL THIS INTERMEDIATE LEVEL TEXT DISCUSSES RANDOM VARIABLES PROBABILITY DISTRIBUTIONS MATHEMATICAL EXPECTATION RANDOM PROCESSES MORE FOR ADVANCED UNDERGRADUATES STUDENTS OF SCIENCE ENGINEERING OR MATH INCLUDES PROBLEMS WITH ANSWERS AND SIX APPENDIXES 1965 EDITION

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OFFER?

## FAQs

ARE FREE EBOOK SITES LEGAL? YES, MOST FREE EBOOK SITES ARE LEGAL. THEY TYPICALLY OFFER BOOKS THAT ARE IN THE PUBLIC DOMAIN OR HAVE THE RIGHTS TO DISTRIBUTE THEM. HOW DO I KNOW IF AN EBOOK SITE IS SAFE? STICK TO WELL-KNOWN AND REPUTABLE SITES LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND GOOGLE BOOKS. CHECK REVIEWS AND ENSURE THE SITE HAS PROPER SECURITY MEASURES. CAN I DOWNLOAD EBOOKS TO ANY DEVICE? MOST FREE EBOOK SITES OFFER DOWNLOADS IN MULTIPLE FORMATS, MAKING THEM COMPATIBLE WITH VARIOUS DEVICES LIKE E-READERS, TABLETS, AND SMARTPHONES. DO FREE EBOOK SITES OFFER AUDIOBOOKS? MANY FREE EBOOK SITES OFFER AUDIOBOOKS, WHICH ARE PERFECT FOR THOSE WHO PREFER LISTENING TO THEIR BOOKS. HOW CAN I SUPPORT AUTHORS IF I USE FREE EBOOK SITES? YOU CAN SUPPORT AUTHORS BY PURCHASING THEIR BOOKS WHEN POSSIBLE, LEAVING REVIEWS, AND SHARING THEIR WORK WITH OTHERS.

