

## CONTENTS

<b>Preface</b>		v
<b>Notation</b>		vii
<b>Introduction</b>		xi
CHAPTER		
I.	<b>Basic Arithmetic Lemmas</b>	1
II.	<b>Additive number-theoretic functions and random variables</b>	20
	First variant	21
	Second variant	23
	Third variant	25
III.	<b>The law of large numbers</b>	30
IV.	<b>One-dimensional integral and local asymptotic distribution laws</b>	43
	Introductory remarks. The class $H$	43
	Integral laws	57
	Uniform distribution mod 1	86
	Local theorems.	88
V.	<b>Asymptotic laws for sums of additive functions</b>	94
VI.	<b>An estimate of the remainder term of integral asymptotic laws</b>	108
VII.	<b>Distribution of sequences of truncated functions</b>	114
VIII.	<b>Many-dimensional asymptotic laws</b>	126
IX.	<b>The method of Dirichlet generating series</b>	139
	General lemmas	140
	The asymptotic expansion	147
	Large deviations	160
	Concluding remarks.	168
X.	<b>Additive number-theoretic functions in the Gaussian number field.</b>	169
	<b>Bibliography</b>	177