55

## ASYMPTOTIC EXPANSIONS

BY E. T. COPSON



CAMBRIDGE UNIVERSITY PRESS

## CONTENTS

Preface		page vii
ı.	Introduction	1
2.	Preliminaries	5
3.	Integration by parts	13
4.	The method of stationary phase	27
5.	The method of Laplace	36
6.	Watson's lemma	48
7.	The method of steepest descents	63
8.	The saddle-point method	91
9.	Airy's integral	99
10.	Uniform asymptotic expansions	107
Bibliography		118
Index		120