

CONTENTS

PREFACE		<i>Page</i>
Chapter I	: General Introduction.	1
Chapter II	: Truncated Interarrival Hyperexponential Queues: $H_k/M/C/N$ with Balking and Reneging.	20
2.1	: Introduction.	20
2.2	: Description of the System.	20
2.3	: The Steady-State equations and their Solution.	21
2.4	: Example.	27
2.5	: Special Cases.	29
2.6	: Conclusion	35
Chapter III	: Truncated Hyper-Poisson Queues: $H_k/M/2/N$ with Balking, Reneging and Heterogeneous Servers.	36
3.1	: Introduction.	36
3.2	: Description of the System.	37
3.3	: The Steady-State Equations and Their Solution.	38
3.4	: Examples.	46
3.5	: Special Cases.	50
3.6	: Conclusion	56
Chapter IV	: Truncated Hyperexponential Service Queues: $M/H_k/1/N$ with Balking and Reneging.	57
4.1	: Introduction.	57

4.2	:	Description of the System.	57
4.3	:	The Steady-State Equations and Their Solution.	58
4.4	:	Examples.	62
4.5	:	Special Cases.	65
4.6	:	Discussion	70
Chapter V	:	Truncated Queues with Bulk Arrivals and Hyperexponential Service Time Distribution with Balking and Reneging.	71
5.1	:	Introduction.	71
5.2	:	Description of the System.	71
5.3	:	The Steady-State Equations and Their Solution.	73
5.4	:	Example.	76
5.5	:	Special Cases.	81
5.6	:	Discussion	87
Chapter VI	:	Truncated Hyper-Poisson Queues: $H_k / M^{a,b} / C / N$ with Balking and Reneging.	88
6.1	:	Introduction.	88
6.2	:	Description of the System.	89
6.3	:	The Steady-State Equations and Their Solution.	90
6.4	:	Special Cases.	100
6.5	:	Discussion	108
REFERENCES	:		109
ARABIC SUMMARY	:		