



## On Regenerative Processes in Queueing Theory

By Jacob W. Cohen

Springer Mrz 1976, 1976. Taschenbuch. Book Condition: Neu. 244x170x6 mm. This item is printed on demand - Print on Demand Neuware - I. The single server queue GI/G/1 1.1. 1.1 Definitions 1.1. 2 Regenerative processes 2.1. 3 The sequence  $n_1, n_2, \dots, n_4 = \dots, n'$  1. 4 The process  $t \in D_0, c_0$  1.1  $\{-t\}$  The process  $t \in D_0, c_0$  1. 5  $\{-t\}$  Applications to the GI/G/1 queue 1. 6 16 The average virtual waiting time during a busy 17 cycle ii. Little's formula 17 iii. The relation between the stationary distributions 18 of the virtual and actual waiting time iv. The relation between the distribution of the idle 20 period and the stationary distribution of the actual waiting time v. The limiting distribution of the residual service 24 time Pds. . . -pw vi. The relation for  $\sim r_n E 25 n=0$  1. 7 Some notes on chapter I 27 II. The M/G/K system 31 2. 1 On the stationary distribution of the actual and virtual 31 waiting time for the M/G/K queueing system 2. 2 The M/G/K loss system 36 2. 3 Proof of Erlang's formula for the M/G/K loss system 43 i. Proof for the...

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