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Fundamentals of Queueing Theory Fourth Edition Donald Gross George Mason University Fairfax, Virginia John F. Shortle George Mason University Fairfax, Virginia James M. Thompson Freddie Mac Corporation McLean, Virginia Carl M. Harris WILEY A JOHN WILEY & SONS, INC., PUBLICATION .

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First because the first problems of queueing theory was raised by calls and Erlang was the first who treated congestion problems in the beginning of 20th century, see Erlang [21,22].

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3 Queueing models and some fundamental relations ... the course Algorithmic methods in queueing theory." The organization is as follows. Chapter 2 first discusses a number of basic concepts ... This chapter is devoted to some basic concepts from probability theory. 2.1 Random variable

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queueing theory is the mathematical theory of waiting lines. More generally, queueing theory is concerned with the mathematical modeling and analysis of systems that provide service to random demands. A queueing model is an abstract description of such a system. Typically, a queueing model represents (1) the system's physical configuration,

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