Electronic Journal: Southwest Journal of Pure and Applied Mathematics
Internet: http://rattler.cameron.edu/swjpam.html
ISSN 1083-0464
Vol. No. 01, 1997, pp. 13–17.
Submitted: January 1, 1997. Published: June 29, 1997.

ESTIMATION OF CHANNEL HOLDING TIME DISTRIBUTION IN CELLULAR TELEPHONE SYSTEMS

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Abstract. In estimating the channel holding time distribution in cellular telephone systems, the pdf of the fraction of two non-negative random variables, distance and speed, has to be determined. Instead of the repeated application of numerical integration we show that the pdf of the holding time is the solution of an initial value problem of a non-linear ordinary differential equation, which can be solved very efficiently.

1991 A.M.S. (MOS) Subject classification Codes. 94A40.

Key Words and Phrases. Cellular telephone system, holding time distribution, transformed random variable.

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