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NUMERICAL COMPUTATIONS FOR THE DESIGN OF ELECTRIC MAIL BOXES ON CANTOR SET

AHMED BUSERI ASHINE

Madda Walabu University, Department of Mathematics, Bale Robe, Ethiopia

ABSTRACT

This paper extends the algorithm introduced by **Error! Reference source not found**. By using the Cantor sets and cubic spline interpolating function in the design of electronic mail boxes. The cantor sets was introduced as the domain of the function for the mail design while spline functions were used as the formula. The password of the mailbox was calculated in line with that of cantor set of intervals and spline interpolating functions in respective of the governing polynomial function of degree N – 1. The software package termed as MATLAB was in a position to design and calculate the intended numerical values. Finally, the Newton-Raphson Method was used for the computational of the password and mathematically the interpretations were given.

KEYWORDS: Cantor Set, Spline, Newton-Raphson Method, Electronic Mail Design