

ANALYSIS AND NUMERICAL SIMULATION OF FRACTIONAL ORDER PINE WILT DISEASE MODEL WITH MITTAG-LEFFLER KERNEL

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Abstract

The existence of man is dependant on nature. The peaceful existence is distributed either by man-made devastations or by natural damages. This study focuses on the contagious model of fractional order pine wilt disease employing the q-HATM (q-homotopy analysis transform method) to the leading fractional operator Atangana-Baleanu (AB) to arrive at better comprehension. The outgrowth are exhibited in the forms of figures and tables. At last the paper helps to analyse the practical theory and assists to predict its manner that correspond the guidelines contemplate the replica.

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