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# Dynamical Systems With Applications Using Matlab

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This paper lists the Preface, Table of Contents, Index of Python Programs and the

book Index.

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Application of the balance law, justified below in compartment analysis, ... 526 Systems of Differential Equations corresponding homogeneous system has an equilibrium solution  $x_1(t) = x_2(t) = x_3(t) = 120$ . This constant solution is the limit at infinity of the solution to the homogeneous system, using the initial values  $x_1(0)$  ...

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spectrum of issues related to dynamical systems, focusing on the theory of smooth dynamical systems with analyses of measure-theoretical, topological, and bifurcational aspects. It covers all essential branches of the theory--local, semi local, and global--including the theory of foliations.