

# Modeling And Analysis Of Dynamic Systems

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The dynamic model represents the time-dependent aspects of a system. It is concerned with the temporal changes in the states of the objects in a system. The main concepts are – State, which is the situation at a particular condition during the lifetime of an object.

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Analysis of a bipolar transistor showing that (1) amplification is a non-equilibrium phenomenon and (2) the transistor amplifier contains a "hidden" gyrator. Nodicity An important behavior of electrical networks generally not found in other domains. Capstan Amplifier An example of amplification by modulating a resistor. Matter Transport

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In general, the dynamic models of GMA are usually classified into three types: namely, the linear magnetostriction model, the single-DOF vibration model and the continuum vibration model. The first one denotes an analysis method where the output of GMA is calculated by  $\lambda \cdot l_0$ , here  $\lambda$  denotes the magnetostriction of GMM and  $l_0$  denotes the length of the material in its un-magnetized state [ 20 ].

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For the dynamic analysis of a variable-speed process, Chaari et al. proposed a dynamic model of a planetary gear for variable speed process, by modulating the meshing stiffness in Lin and Parker's model with the mean angular velocity [7,8]. That is, the pulse density of the meshing stiffness wave varies with the mean angular velocity.

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