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object.

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## **Lecture Notes | Modeling and Simulation of Dynamic Systems ...**

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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