接近亏损系统的矩阵摄动法

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摘要　　随着系统参数的变化，带有重频的系统可转变成带有密集频率的系统，反之亦然．本文讨论了亏损系统与接近亏损系统之间的关系．并提出了接近亏损系统的平均移位的摄动方法．算例表明了此方法的有效性.

关键词　　接近亏损系统　矩阵摄动

分类号

PERTURBATION METHOD OF NEAR DEFECTIVE SYSTEMS

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Abstract

The matrix perturbation theory for the distinct eigenvalues of the real symmetric matrix was well developed. If some of eigenvalues are multiple, the nature of the problem changes and difficulties arise. To avoid such difficulties, it is usually assumed that the system has a set of complete eigenvectors to span the space, i.e. the system is non defective. However, in actual engineering problems, such as general damping systems, flutter analysis of aero elasticity, and so on, the defective system, that do no...

Key words　near defective system　matrix perturbation

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