数值计算与计算机应用 1998, 19(4) 283-289 DOI: ISSN: 1000-3266 CN: 11-2124/TP

论文

基于广义逆的矩阵PADE逼近的Pfaffian计算公式及其应用

顾传青

上海大学理学院

摘要：

关键词：

PFAFFIAN FORMULA FOR GENERALIZED INVERSE MATRIX PADE APPROXIMATION AND APPLICATION

Gu Chuan-qing (Science College of Shanghai Univetrsity)

Abstract:

A new matrir Pade approximants (GMPA) based on generalized inverse was at first introduced by [1]. The aim of this paper is to give a Psaan formula for denominator polynomial of GMPA, which should represent the denominator more accurately than the standard determinantal form in [1]. The result derive from Cayley theorem [6] which states that the determinant of a bordered zero-axial skew-symmetric matrix is the product of two Pfaffians. As a important result, the Pfaffian formula of denominator polynomial of type [4/4] for CMPA is established and ls applied to approximate matrix exponential functions.

Keywords:

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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