

عنوان مقاله:

A collocation method for solving Fredholm integral equation of the first kind with hard singularity

محل انتشار:

دومین کنفرانس ملی ریاضی:مهندسی پیشرفته با تکنیک های ریاضی (سال: 1396)

تعداد صفحات اصل مقاله: 7

نویسندگان: Y. Mahmoudi - Department of Mathematics, Tabriz Branch, Islamic Azad University, Tbariz, Iran

M. Jahangiri Rad - Department of Mathematics, Tabriz Branch, Islamic Azad University, Tbariz, Iran

F. Dastmalchi Saei - Department of Mathematics, Tabriz Branch, Islamic Azad University, Tbariz, Iran

خلاصه مقاله:

In this paper, we introduce the concept of Cauchy principal value and Hadamard finite-part in singular integrals. We derive a new expression for integral part and then construct some collocation method for solving integral equations involving Cauchy principal value and Hadamard finite-part singularities. A numerical example performed to illustrate .the theoretical results

كلمات كليدي:

Collocation method, Cauchy principal value, Hadamard finite-part, Hypersingular integral equation

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/622041

