

عنوان مقاله:

AN INVESTIGATION IN TO THE DIFFERENT METHODS FOR MODIFICATION OF STOKES FUNCTION IN IRAN

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خلاصه مقاله:

All the convolution integrals encountered in gravity field work are to evaluated over the whole earth. In the numerical applications of Stokes' formula the area of integration is usually limited to a spherical cap around the computation point. Truncation of the integration is often necessary as detailed input data are usually not available around the world. M.S.Molodensky gave a pioneer method to reduce the effect of the truncation error thus introduced by modifying the kernel functions. Later on several geodesists have improved some alternatives methods for this purpose, such as Meissl, Wong, Gore, Vanicek-Kleusberg, sjoberg, Jekeli and Featherstone. In this paper, the numerical results of some different methods with various spherical cap-sizes for modification of Stokes' kernel in Iran are presented and a numerical comparison between them is performed.

کلمات کلیدی:

Geoid – Stokes formula – Truncation error

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