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Solution for System Of Fractional Partial Differential Equations (<https://digitalcommons.pvamu.edu/cgi/viewcontent.cgi?article=1630&context=aam>)

Authors

D. B. Dhaigude, *Dr. Babasaheb Ambedkar Marathwada University* (<https://digitalcommons.pvamu.edu/do/search/?q=author%3A%22D.%20B.%20Dhaigude%22&start=0&context=15878344>)
Swati N. Kanade, *Shiv Chhatrapati College, N-3 CIDCO* (<https://digitalcommons.pvamu.edu/do/search/?q=author%3A%22Swati%20N.%20Kanade%22&start=0&context=15878344>)
C. D. Dhaigude, *MIT, Pune, India* (<https://digitalcommons.pvamu.edu/do/search/?q=author%3A%22C.%20D.%20Dhaigude%22&start=0&context=15878344>)

Abstract

The purpose of this article is to discuss solutions of different initial value problems (IVPs) for system of fractional differential equations. These equations appear in physical processes such as transportation and anomalous diffusion. The iteration method is successfully developed and series solution of IVPs at hand are obtained which converges to a function known as solution function of the IVPs. Graphical representation of solution of some IVPs are given using Mathematical software "MATLAB".

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