

An introduction to the Split Step Fourier Method using MATLAB

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Abstract

The Split Step Fourier Method provides an excellent methodology for learning and teaching how to solve time dependent partial differential equations. This method is ubiquitously used in engineering and physics applications. In this article, we present the simplicity of this method by solving the Linear and Nonlinear Schrödinger Equation and with the aid of MATLAB, we demonstrate a straight forward implementation. Extension to other type of problems are also discussed with the corresponding codes. This article illustrates a very powerful numerical technique that can be implemented quite easily.

1 Introduction

The Split Step Fourier Method(SSFM) is a part of the the family of pseudo-spectral methods used to solve time dependent nonlinear partial differential equation. The approach followed by SSFM follows the old age strategy of divide and conquer. The nonlinear PDE is divided into related sub-problems of the original equation. The method is easy to understand and with the use of MATLAB the implementation is straight forward.

In this article, we shall illustrate the implementation of the Fourier Split Method using MATLAB. We shall discuss the numerical solution of a variety of examples. We begin with the one dimensional linear Schrödinger Equation, the nonlinear Schrödinger equation, systems of the Schrodinger and the 2D Schrödinger equation. For a more detailed discussion on the origins and development of the method, the reader may wish to refer to books listed in

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