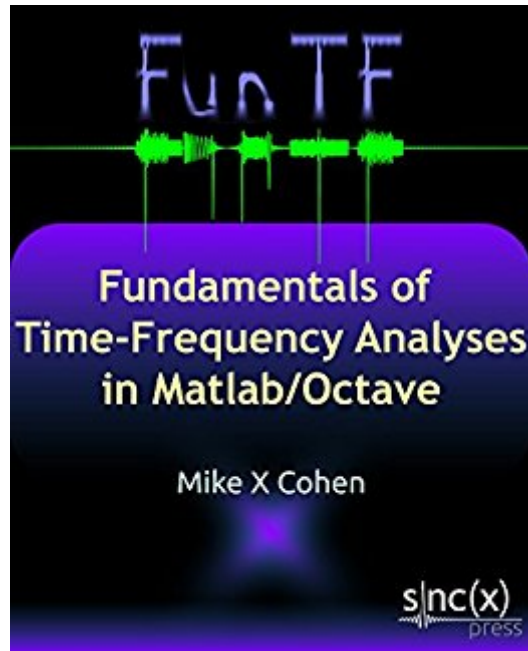


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# Fundamentals Of Time-Frequency Analyses In Matlab/Octave



## Synopsis

Time-frequency analyses are critical for characterizing and understanding systems in many areas of science and engineering. This low-cost book focuses on practical implementations of the analyses in Matlab/Octave. The book explains time-frequency analyses through written explanations and many figures, rather than through opaque mathematical equations. Each of 120 figures in the book corresponds to Matlab code that is available in the book and online ([sincxpress.com](http://sincxpress.com)), and can be run, inspected, and modified on any computer. By reading this book and working through the exercises, the reader will gain the knowledge and skills to apply frequency and time-frequency analyses to simulated and to real data. The book also includes introductions to non-frequency-dependent time series analyses including stationarity and de-noising. Note that you do not need to own a kindle device to read this book. There are free kindle apps for windows/mac/linux, and for smartphones, tablets, etc. You can even read it from a web browser at [read..com](http://read..com).

## Book Information

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I'm a complete beginner to Digital Signal Processing / Time-Frequency Analysis and Octave /Matlab.However I'm very experienced in programming for other imperative languages (python, php, go)I'm the kind of person that learns better by looking at how something is implemented in code and then reading the explanation.In this regard the book is excellent since it strikes the right balance of code, explanation, and density of information.Due to the care taken in the examples I was able to execute all (except one) in Gnu - Octave.Which was perfect since I didn't want to buy a Matlab license.Something that sets this book apart is it's emphasis on how to simulate data from the real world.All in all an excellent book.

Loved it.. M. X. Cohen takes time frequency descriptions to a new level of understanding. !!!

A pragmatic results oriented reference. This is a how-to book. Useful and well organized

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