



# Fundamentals of Time-Frequency Analyses in Matlab/Octave

*Mike X Cohen*

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## **Fundamentals of Time-Frequency Analyses in Matlab/Octave** Mike X Cohen

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.

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