



# The FFT in the 21st Century: Eigenspace Processing

By James K. Beard

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## The FFT in the 21st Century: Eigenspace Processing By James K. Beard

This book was undertaken to provide a text and reference on the theory and practice of the FFT and its common usage. This book is organized in only four chapters, and is intended as a tutorial on the use of the FFT and its trade space. The trade space of the FFT is the parameters in its usage and the relationships between them - the sample rate, the total number of points or the interval over which processing occurs in a single FFT, the selectivity of tuning to a given frequency over signals out-of-band, and the bandwidth over which a signal appears. The examples given in this text are in FORTRAN 95/2003. FORTRAN 2003 was frozen as a standard while this work was in progress. The listings given here are intended as an aid in understanding the FFT and associated algorithms such as spectral window weightings, with the goal of making the best of them more accessible to the reader. The code I use here provides a simple bridge between the material in the text and implementation in FORTRAN 2003, C++, Java, MATLAB ©, and other modern languages. The examples are sufficiently simple to be translated into older languages such as C and FORTRAN 77 if desired.

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## **The FFT in the 21st Century: Eigenspace Processing** By James K. Beard Bibliography

- Sales Rank: #4344546 in eBooks
- Published on: 2010-02-19
- Released on: 2003-10-31
- Format: Kindle eBook

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