



[Free Engineering Lectures](#)

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Why the DFT is useful A few examples | Digital Signal Processing 18:54

<https://www.youtube.com/watch?v=XjAN7iNMvzI>

- ▶ **Module 4.x.1:** Analysis of musical instruments
- ▶ **Module 4.x.2:** Approximation of periodical phenomena: the case of tides in Venice
- ▶ **Module 4.x.3:** The secret of MP3 compression
- ▶ **Module 4.x.4:** Magnetic Resonance Imaging

The DFT in practice | Digital Signal Processing 20:27

<https://www.youtube.com/watch?v=Nbq7BSaus6c>

Image processing | Digital Signal Processing 17:03

<https://www.youtube.com/watch?v=8pr-yrlXnmQ>

A series of lectures using Fourier techniques for compressions – JPEG, etc.