

# 2D Discrete Fourier Transform



- It is also possible to define DFT as follows

$$F[k, l] = \frac{1}{\sqrt{MN}} \sum_{m=0}^{M-1} \sum_{n=0}^{N-1} f[m, n] e^{-j2\pi \left( \frac{k}{M}m + \frac{l}{N}n \right)}$$

where  $k = 0, 1, \dots, M-1$  and  $l = 0, 1, \dots, N-1$

- Inverse DFT

$$f[m, n] = \frac{1}{\sqrt{MN}} \sum_{k=0}^{M-1} \sum_{l=0}^{N-1} F[k, l] e^{j2\pi \left( \frac{k}{M}m + \frac{l}{N}n \right)}$$

# Lecture 7 Discrete Fourier Transform In 2d

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## Lecture 7 Discrete Fourier Transform In 2d:

## Reviewing **Lecture 7 Discrete Fourier Transform In 2d**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Lecture 7 Discrete Fourier Transform In 2d**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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