Software Defined Communication System

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Part I

Unit 1

Chapter 1

Convolutions

Definition 1.0.1: Convolution

A convolution is an integral that expresses the amount of overlap of one function $f(t)$, as it is shifted over to function $g(t)$, for a continuous time signal.

$$(f * g)(t) = \int_{-\infty}^{\infty} f(\tau)g(t-\tau)d\tau$$