

## Lecture 6 Laplace Transform Mit Opencourseware

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### Lecture 6 Laplace Transform Mit

Building on concepts from the previous lecture, the Laplace transform is introduced as the continuous-time analogue of the Z transform. The lecture discusses the Laplace transform's definition, properties, applications, and inverse transform.

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This section provides materials for a session on the conceptual and beginning computational aspects of the Laplace transform. Materials include course notes, lecture video clips, practice problems with solutions, a problem solving video, and problem sets with solutions.

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### Lecture 6 Laplace Transform Mit Opencourseware

Download English-US transcript (PDF) Today we are going to do a last serious topic on the Laplace transform, the last topic for which I don't have to make frequent and profuse apologies. One of the things the Laplace transform does very well and one of the reasons why people like it, engineers like it, is that it handles functions with jump discontinuities very nicely.

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The Laplace transform of a sum is the sum of a Laplace transforms. And in conjunction with the differentiation roll by which we knew that the Laplace transform of a derivative is s times the Laplace transform the function, the combination of linearity and the differentiation role allowed us

to apply Laplace transforms to turn differential ...

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The Laplace transform of this function is that one. Okay, well, let's use, for the linearity law, it's definitely best. I really cannot express the linearity law using the second notation, but using the first notation, it's a breeze. The Laplace transform of the sum of two functions is the sum of their Laplace transforms of each of them separately.

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If instead we apply the Laplace transform to this, applying the Laplace transform is the same as taking the Fourier transform of  $x$  of  $t$  times an exponential, and the exponent that we would multiply by is  $e$  to the minus  $\sigma t$ . So in effect, taking the Laplace transform of this is like taking the Fourier transform of  $e$  to the minus  $\sigma t$  at  $e$  to the ...

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