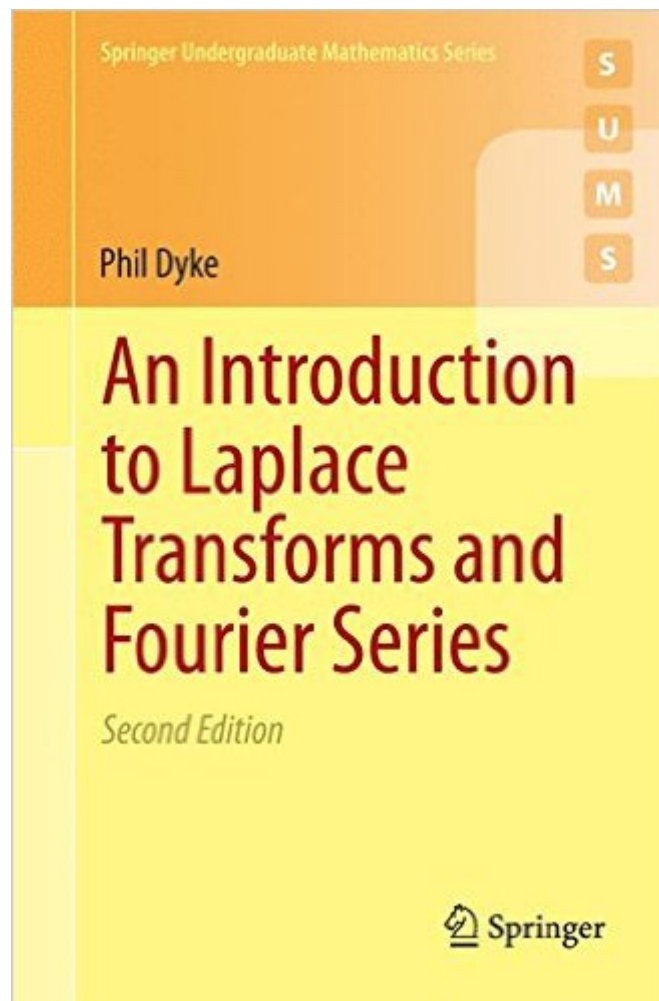


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An Introduction To Laplace Transforms And Fourier Series (Springer Undergraduate Mathematics Series)



Synopsis

This advanced undergraduate/graduate textbook provides an easy-to-read account of Fourier series, wavelets and Laplace transforms. It features many worked examples with all solutions provided.

Book Information

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Average Customer Review: 4.7 out of 5 stars [See all reviews](#) (3 customer reviews)

Best Sellers Rank: #1,247,891 in Books (See Top 100 in Books) #83 in [Books > Science & Math > Mathematics > Infinity](#) #885 in [Books > Science & Math > Physics > Mathematical Physics](#) #1040 in [Books > Science & Math > Mathematics > Mathematical Analysis](#)

Customer Reviews

This textbook tries to strike a balance between the "toolkit" (how to use it) approach (supposedly) desired by engineers and the more rigorous mathematician's development. Speaking as an engineer, I found it not as intuitive as I had hoped (I'm more mathematically-oriented than most engineers) However, the book is clearly written and develops the arguments in small steps. Recommend it as helpful, but perhaps supplemented by more careful development.

This is an excellent introduction text about Fourier Series and Laplace Transforms. I found the writing to be very concise and clear and technical enough to satisfy those who want a bit of rigour but not too much to scare someone away. There is a nice introduction to Fourier Transforms which I think is very good, however it is a bit small for my taste. Also there is a small introduction to signal analysis which will please the engineer seeing it for the first time. I think the bread and butter is in chapter 7 with inverse Laplace transforms using complex analysis. It is an excellent introduction to using the Bromwich contour to evaluate inverse Laplace transforms. It is a great introduction to that topic and I have used it as a stepping stone to look at more advanced stuff. As another reviewer

mentioned all the exercises have detailed solutions worked out in the back which should please any self-learner. Plus given the relatively cheap price (not as cheap as Dover) it is worth the money.

This is an ideal introduction for mathematicians and applied scientists. Written in an easy to understand style and full of good relevant examples. I guess only the more mathematical will be able to digest the last chapter. All exercises have not only answers but solutions which students will appreciate.

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