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transforms and applications primer for engineers with examples and matlab is required reading for engineering and science students professionals and anyone working on problems involving transforms this invaluable primer contains the most essential integral transforms that both practicing engineers and students need to understand it provides a large number of examples to explain the use of transforms in different areas including circuit analysis differential equations signals and systems and mechanical vibrations includes an appendix with suggestions and explanations to help you optimize your use of matlab laplace and fourier transforms are by far the most widely used and most useful of all integral transforms so they are given a more extensive treatment in this book compared to other texts that include them offering numerous matlab functions created by the author this comprehensive book contains several appendices to complement the main subjects perhaps the most important feature is the extensive tables of transforms which are provided to supplement the learning process this book presents advanced material in a format that makes it easier to understand further enhancing its immense value as a teaching tool for engineers and research scientists in academia and industry as well as students in science and engineering

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