



The Laplace transform : theory and applications /

Schiff, Joel L.,
author

Electronic books

Monografía

The Laplace transform is an extremely versatile technique for solving differential equations, both ordinary and partial. It can also be used to solve difference equations. The present text, while mathematically rigorous, is readily accessible to students of either mathematics or engineering. Even the Dirac delta function, which is normally covered in a heuristic fashion, is given a completely justifiable treatment in the context of the Riemann-Stieltjes integral, yet at a level an undergraduate student can appreciate. When it comes to the deepest part of the theory, the Complex Inversion Formula, a knowledge of poles, residues, and contour integration of meromorphic functions is required. To this end, an entire chapter is devoted to the fundamentals of complex analysis. In addition to all the theoretical considerations, there are numerous worked examples drawn from engineering and physics. When applying the Laplace transform, it is important to have a good understanding of the theory underlying it, rather than just a cursory knowledge of its application. This text provides that understanding

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjU4NjU0NzA>

Título: The Laplace transform theory and applications Joel L. Schiff

Editorial: New York, NY Springer-Verlag New York, Inc. [1999] 1999

Descripción física: 1 online resource (xiv, 235 pages) illustrations

Mención de serie: Undergraduate texts in mathematics

Bibliografía: Includes bibliographical references (pages 207-208) and index

Contenido: Basic Principles -- Applications and Properties -- Complex Variable Theory -- Complex Inversion Formula -- Partial Differential Equations -- Appendix -- References

Lengua: English

Copyright/Depósito Legal: 55050685 70749340 228373891 488713153 559474341 646705906 814259083 880329697 888594952 923695422 988448952 992053612 1035684621 1044207284 1045450328 1056327431 1060769635 1075071290 1078832418 1097351167 1113071388

ISBN: 9780387227573 electronic bk.) 0387227571 electronic bk.) 9781475772623 print) 1475772629 print) 0585499306 9780585499307 661014575X 9786610145751 0387986987 9780387986982

Materia: Laplace transformation Laplace, Transformation de MATHEMATICS- Functional Analysis Laplace transformation Laplace, Transformation de Laplace transformation

Enlace a formato físico adicional: Print version Schiff, Joel L. Laplace transform. New York : Springer, 1999 0387986987 (DLC) 99014037 (OCoLC)40776787

Punto acceso adicional serie-Título: Undergraduate texts in mathematics

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es