



## Theory of Linear Physical Systems: Theory of Physical Systems from the Viewpoint of Classical Dynamics, Including Fourier Methods

By Ernst S. Guillemin

Dover Publications Inc., United States, 2013. Paperback. Book Condition: New. Reprint. 229 x 150 mm. Language: English . Brand New Book. An eminent electrical engineer and authority on linear system theory takes upper-level undergraduates and graduate students beyond the average introductory circuits course, providing them with additional background for understanding advanced network synthesis. This sophisticated treatise broadens students understanding of the topological and algebraic relations for establishing equilibrium equations and transformations between sets of variables. The text further examines energy functions in both active and passive situations as well as important properties of impedance and similar characterizing functions. The treatment also explores the evaluation and prediction of approximation and truncation errors attendant upon the use of numerical methods of direct and inverse Fourier transform evaluation; the properties of partial sums; and the interpretation of limit processes. In addition, the text stresses the relation between the Fourier and Laplace methods and the approach in classical dynamics, basing the evaluation of Fourier integrals upon meaningful physical reasoning and providing an effective tool for dealing with special problems from the viewpoint of classical dynamics.



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