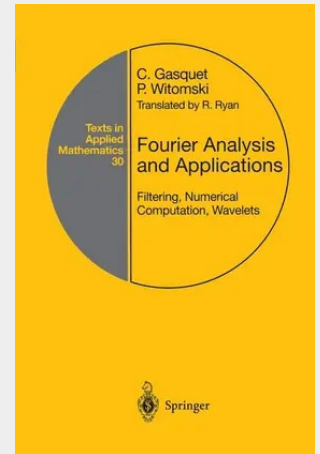


Fourier Analysis and Applications: Filtering, Numerical Computation, Wavelets

The object of this book is two-fold -- on the one hand it conveys to mathematical readers a rigorous presentation and exploration of the important applications of analysis leading to numerical calculations. On the other hand, it presents physics readers with a body of theory in which the well-known formulae find their justification. The basic study of fundamental notions, such as Lebesgue integration and theory of distribution, allow the establishment of the following areas: Fourier analysis and convolution Filters and signal analysis time-frequency analysis (gabor transforms and wavelets). The whole is rounded off with a large number of exercises as well as selected worked-out solutions.

This book combines material from two sources: Analyse de Fourier et applications: Filtrage, Calcul numerique, Ondelettes by Claude Gasquet and Patrick Witomski (Masson, Paris, second printing, 1995) and Analyse de Fourier et applications: Exercices corriges by Robert Delmasso and Patrick Witomski (Masson, Paris, 1996). The translation of the first book forms the core of this Springer edition; to this have been added all of the exercises from the second book. The exercises appear at the end of the lessons to which they apply. The solutions to the exercises were not included because of space constraints. When Springer offered me the opportunity to translate the book by Gasquet and Witomski, I readily accepted because I liked both the book's content and its style. I particularly liked the structure in 42 lessons and 12 chapters, and I agree with the authors that each lesson is a "chewable piece," which can be assimilated relatively easily. Believing that the structure is important, I have maintained as much as possible the "look and feel" of the original French book, including the page format and numbering system. I believe that this page structure facilitates study, understanding, and assimilation.



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