

## ***EXCERPTS FROM REVIEWS OF PROFESSOR GARDNER'S BOOKS***

***STATISTICAL SPECTRAL ANALYSIS*** (Prentice-Hall, 1987)

**One prepublication reviewer of *Statistical Spectral Analysis* states:** "The manuscript is well written and the book as a whole is a competent piece of work . . .it opens up a whole new line of reasoning in the important area of spectral analysis . . . people who look at and study this book will see a refreshing new approach that might not only help their own research but also help their teaching . . ."

**Another prepublication reviewer adds:** "Professor Gardner's historical preface is well done and is perfectly correct as to what has happened in the development of numerical spectral analysis over the past 40 years and more. The approach that he follows in this book makes a lot of sense . . . The originality of the manuscript lies mainly in the decision to organize a whole text on a consistent foundation . . . In my opinion, a good fraction of instructors will be delighted to switch [to this approach] . . . I would think that half the instructors are dissatisfied with their current book and would like to try an alternative, especially one that has a clear philosophical foundation."

**Other quotations from recognized leaders in the field:** " . . . Professor Gardner has made a significant contribution to statistical spectral analysis, one that would please the early pioneers of spectral theory and especially Norbert Wiener . . . Part II represents the results of the author's own research on cyclostationary stochastic processes, and much of the material is new and important . . ." (published in *Signal Processing*, EURASIP, and *Journal of Dynamical Systems, Measurement, and Control*, ASME)

Also, "This excellent book is an outstanding contribution that is going to have a tremendous impact. The author has gone very deeply into the subject with much insight.... This book can be highly recommended to the engineering profession."

--Enders A. Robinson  
Distinguished Professor  
Society of Exploration Geophysicists Medalist  
member of National Academy of Engineering

"I admire the scholarship of this book and its radical departure from the stochastic process bandwagon of the past 40 years."

--Professor James Massey  
Fellow of IEEE  
Past Chairman, IEEE Information Theory Group  
member of National Academy of Engineering

"If we are to go beyond pure mathematical deduction and make advances in the realm of phenomena, theory should start from the data. To do otherwise risks failure to discover that which is not built into the model . . . Professor Gardner's book demonstrates a consistent approach from data, those things which in fact are given, and shows that analysis need not proceed from assumed probability distributions or random processes. This is a healthy approach and one that can be recommended to any reader."

--Professor Ronald N. Bracewell  
Fellow of IEEE  
Fellow of the Royal Astronomical Society  
member of International Academy of Astronautics

"It is always hard to go against the established order, but I am sure that the book will have a considerable impact. It will be a definitive text on spectral analysis."

--Professor Thomas Kailath  
Fellow of IEEE  
Fellow of Institute of Mathematical Statistics  
Past President, IEEE Information Theory Group  
member of National Academy of Engineering

"It is important . . . that until Gardner's . . . book was published there was no attempt to present the modern spectral analysis of random processes consistently in language that uses only time-averaging rather than averaging over the statistical ensemble of realizations [of a stochastic process] . . . Professor Gardner's book is a valuable addition to the literature." (published in *Theory of Probability and its Applications*)

--Professor Akiva M. Yaglom  
Academy of Sciences of the USSR