

# ***Statistics and Computing***

**David R. Lemmon  
Joseph L. Schafer**

## **Developing Statistical Software in Fortran 95**

# Developing Statistical Software In Fortran 95

**Leland Wilkinson**



## **Developing Statistical Software In Fortran 95:**

*Developing Statistical Software in Fortran 95* David R. Lemmon, Joseph L. Schafer, 2005-12-15 Many books teach computational statistics Until now however none has shown how to write a good program This book gives statisticians biostatisticians and methodologically oriented researchers the tools they need to develop high quality statistical software Topics include how to Program in Fortran 95 using a pseudo object oriented style Write accurate and efficient computational procedures Create console applications Build dynamic link libraries DLLs and Windows based software components Develop graphical user interfaces GUIs Through detailed examples readers are shown how to call Fortran procedures from packages including Excel SAS SPSS S PLUS R and MATLAB They are even given a tutorial on creating GUIs for Fortran computational code using Visual Basic NET This book is for those who want to learn how to create statistical applications quickly and effectively Prior experience with a programming language such as Basic Fortran or C is helpful but not required More experienced programmers will learn new strategies to harness the power of modern Fortran and the object oriented paradigm This may serve as a supplementary text for a graduate course on statistical computing From the reviews This book should be read by all statisticians engineers and scientists who want to implement an algorithm as a computer program The book is the best introduction to programming that I have ever read I value it as one of my important reference books in my personal library Melvin J Hinich for *Techonmetrics* November 2006 Overall the book is well written and provides a reasonable introduction to the use of modern versions of Fortran for statistical computation The real thrust of the book is building COM interfaces using Fortran and it will no doubt be most useful to anyone who needs to build such interfaces *Journal of the American Statistical Association* June 2006 The book is well written and is divided into chapters and sections which are coherent Overall the book seems like a good resource for someone that already knows some dialect of FORTRAN and wants to learn a bit about what is new in FORTRAN 95 Robert Gentleman for the *Journal of Statistical Software* December 2006

**Developing Statistical Software in Fortran 95** David R. Lemmon, Joseph L. Schafer, 2008-11-01 Many books teach computational statistics Until now however none has shown how to write a good program This book gives statisticians biostatisticians and methodologically oriented researchers the tools they need to develop high quality statistical software Topics include how to Program in Fortran 95 using a pseudo object oriented style Write accurate and efficient computational procedures Create console applications Build dynamic link libraries DLLs and Windows based software components Develop graphical user interfaces GUIs Through detailed examples readers are shown how to call Fortran procedures from packages including Excel SAS SPSS S PLUS R and MATLAB They are even given a tutorial on creating GUIs for Fortran computational code using Visual Basic NET This book is for those who want to learn how to create statistical applications quickly and effectively Prior experience with a programming language such as Basic Fortran or C is helpful but not required More experienced programmers will learn new strategies to harness the power of modern Fortran and the

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matrices encountered in statistics such as projection matrices and positive definite matrices and describes special properties of those matrices as well as describing various applications of matrix theory in statistics including linear models multivariate analysis and stochastic processes It begins with a discussion of the basics of numerical computations and goes on to describe accurate and efficient algorithms for factoring matrices how to solve linear systems of equations and the extraction of eigenvalues and eigenvectors It covers numerical linear algebra one of the most important subjects in the field of statistical computing The content includes greater emphases on R and extensive coverage of statistical linear models Matrix Algebra is ideal for graduate and advanced undergraduate students or as a supplementary text for courses in linear models or multivariate statistics It is also ideal for use in a course in statistical computing or as a supplementary text for various courses that emphasize computations

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**Strength in Numbers: The Rising of Academic Statistics Departments in the U. S.** Alan Agresti, Xiao-Li Meng, 2012-11-02 Statistical science as organized in formal academic departments is relatively new With a few exceptions most Statistics and Biostatistics departments have been created within the past 60 years This book consists of a set of memoirs one for each department in the U S created by the mid 1960s The memoirs describe key aspects of the department's history its founding its growth key people in its development success stories such as major research accomplishments and the occasional failure story PhD graduates who have had a significant impact its impact on statistical education and a summary of where the department stands today and its vision for the future Read here all about how departments such as at Berkeley Chicago Harvard and Stanford started and how they got to where they are today The book should also be of interests to scholars in the field of disciplinary history

*Introductory Statistics with R* Peter Dalgaard, 2008-06-27 This book provides an elementary level

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*AMSTAT News* ,2005 [Modern Applied Statistics with S](#)  
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