



Simulating Data with SAS

By Rick Wicklin

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Data simulation is a fundamental technique in statistical programming and research. Rick Wicklin's *Simulating Data with SAS* brings together the most useful algorithms and the best programming techniques for efficient data simulation in an accessible how-to book for practicing statisticians and statistical programmers.

This book discusses in detail how to simulate data from common univariate and multivariate distributions, and how to use simulation to evaluate statistical techniques. It also covers simulating correlated data, data for regression models, spatial data, and data with given moments. It provides tips and techniques for beginning programmers, and offers libraries of functions for advanced practitioners.

As the first book devoted to simulating data across a range of statistical applications, *Simulating Data with SAS* is an essential tool for programmers, analysts, researchers, and students who use SAS software.

This book is part of the SAS Press program.

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Editorial Review

Review

"This book is a powerful learning tool and an indispensable aid to anyone who wants to use simulation methods in SAS. I especially like the exercises throughout each chapter, because I believe that you learn much more by getting into the 'meat' of the program. Also of particular interest to me were the chapters on resampling and on moment matching. These are two methods that have great appeal in our analyses of safety pharmacological data." --Steve Denham, Associate Director, Biostatistics MPI Research, Inc.

"Rick Wicklin's new book, *Simulating Data with SAS*, is highly approachable, and shows how the power of the IML language can be harnessed with other elements of the SAS System to make simulation easy. The book is ideal for self-learners who already have a grounding in statistical modelling using SAS/STAT and who wish to learn simulation. It would also make a valuable resource for a graduate level course that introduces simulation and IML programming at the same time." --Ian Wakeling, Qi Statistics

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About the Author

Rick Wicklin is a principal researcher in computational statistics at SAS, where he develops and supports the IML procedure and the SAS/IML Studio application. He received a PhD from Cornell University and has been a SAS user since 1997. Rick has presented numerous tutorials and papers at statistical and SAS users group conferences and is active in the American Statistical Association. Rick maintains a blog for statistical programmers at blogs.sas.com/content/iml/.

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