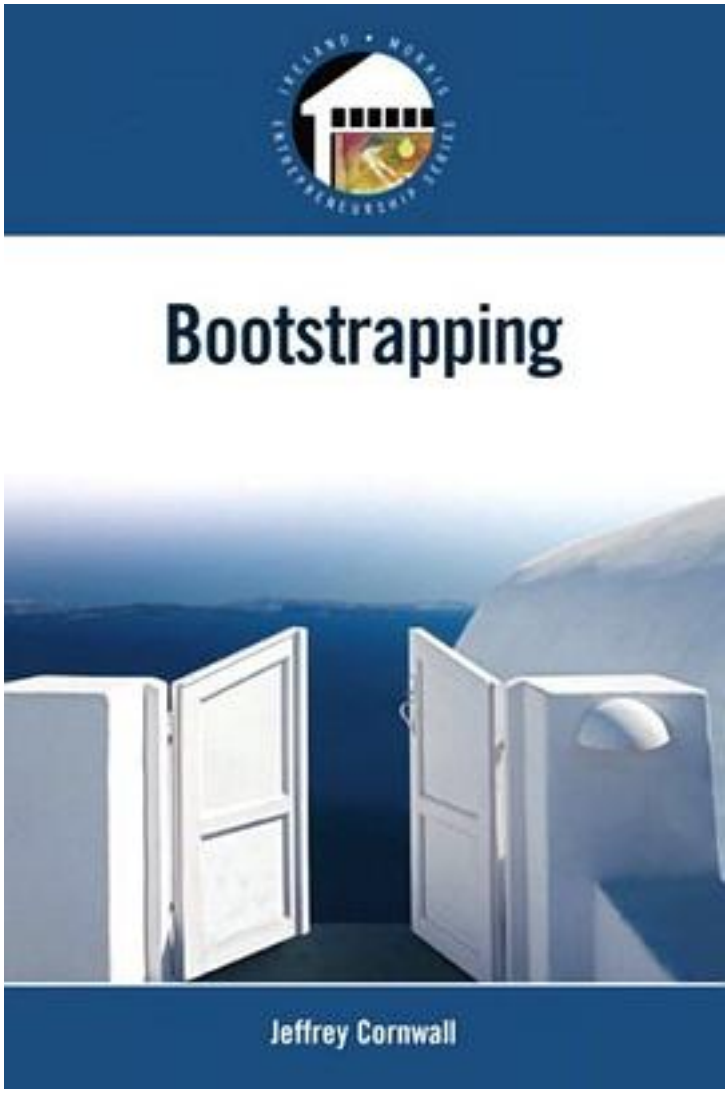
Bootstrapping



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著者:Mooney, Christopher Z./ Duval, Robert D.

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Bootstrapping, a computational nonparametric technique for 're-sampling', enables researchers to draw a conclusion about the characteristics of a population strictly from the existing sample rather than by making parametric assumptions about the estimator. Using real data examples from per capita personal income to median preference differences between legislative committee members and the entire legislature, Mooney and Duval discuss how to apply bootstrapping when the underlying sampling distribution of the statistics cannot be assumed normal, as well as when the sampling distribution has no analytic solution. In addition, they show the advantages and limitations of four bootstrap confidence interval methods: normal approximation, percentile, bias-corrected percentile, and percentile-t. The authors conclude with a convenient summary of how to apply this computer-intensive methodology using various available software packages.

作者介绍:

目录:

Bootstrapping_下载链接1_

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评论

Bootstrapping_下载链接1_

书评

Bootstrapping_下载链接1_