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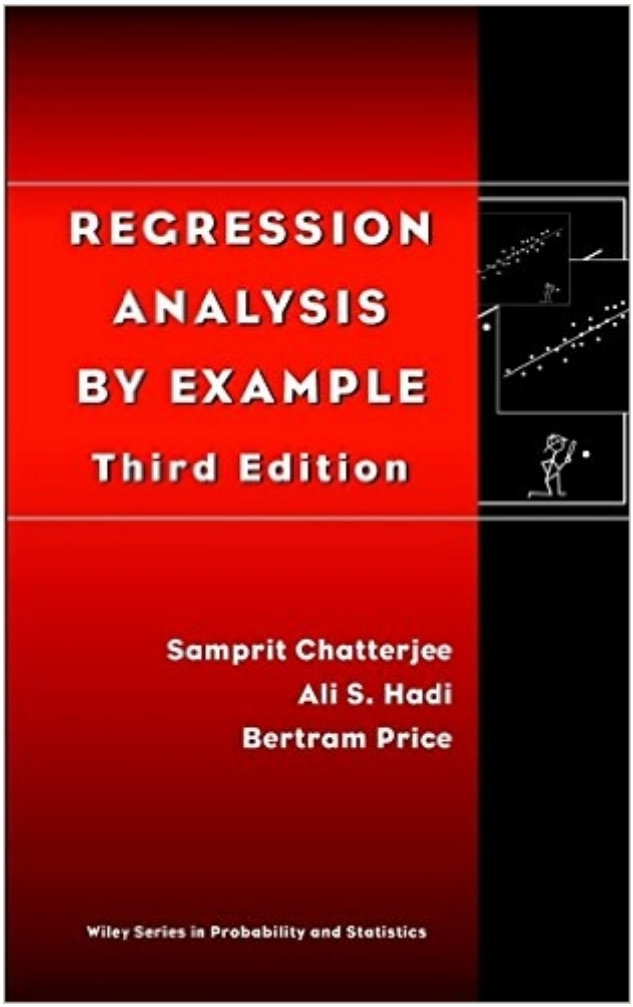
Regression Analysis By Example, 3rd Edition



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Synopsis

Regression analysis provides a conceptually simple method for investigating relationships among variables. Carrying out a successful application of regression analysis, however, requires a balance of theoretical results, empirical rules, and subjective judgement. Regression Analysis by Example, Third Edition explains the principles underlying exploratory data analysis, emphasizing data analysis rather than statistical theory. This is not just another edition of the book; it is a major rewriting and reorganization of the previous edition. The new edition is expanded and updated to reflect recent advances in the field, offering in-depth treatment of diagnostic plots, time series regression, multicollinearity, and logistic regression. Suitable for anyone with an understanding of elementary statistics, Regression Analysis by Example, Third Edition illustrates methods of regression analysis, with examples containing the types of irregularities commonly encountered in the real world. Each example isolates one or two techniques and features detailed discussions of the techniques themselves, the required assumptions, and the evaluated success of each technique. Each of the methods described can be carried out with most currently available statistical software packages.

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Customer Reviews

I used the first edition of this book (Chatterjee and Price, 1975) when I was a graduate student in the late ’70’s. The text was not as easy to read as the title might suggest, but it was much more accessible than commonly used alternatives, such as Johnston’s introduction to econometrics and

Draper and Smith's regression book. Chatterjee and Price's last chapter, however, seemed misplaced and was a bit of a mystery. It dealt with multicollinearity and leaned heavily on the work of a British statistician named Silvey. His prescription for dealing with multicollinearity was (to closely paraphrase) collect additional data in the direction of an eigenvalue that is small but not equal to zero. Fortunately, it was not necessary to master the last chapter to take nearly the full measure of Chatterjee and Price's offering.In subsequent editions nothing quite so formidable as Silvey's account and prescripton has been included. The book remains accessible and informative. It includes useful examples, though for students of the social and behvaioral sciences, the examples may seem substantively unfamiliar. Nevertheless, the examples are understandable, and they do a reasonbly good job of clarifying the authors' explanations. My only concern is that some of the illustrative material inclued early in the book seems better served through use of time-series analysis rather than cross-sectional ordinary least squares, as applied by the authors.Some readers may like the authors' intuitive approach to regression diagnostics. For example, rather than employ the usual formula to identify a Cook's Distance value that betokens an unduly influential observation, the authors' suggest visual examination of distributions of the Cook's Distance statistic to find unusually large values.

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