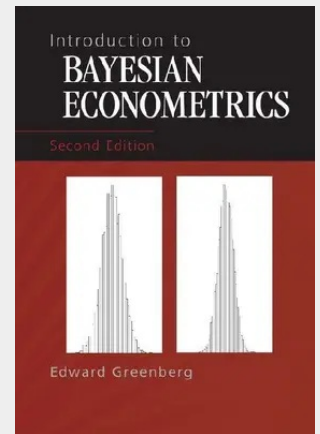


Introduction to Bayesian Econometrics

This textbook explains the basic ideas of subjective probability and shows how subjective probabilities must obey the usual rules of probability to ensure coherency. It defines the likelihood function, prior distributions and posterior distributions. It explains how posterior distributions are the basis for inference and explores their basic properties. Various methods of specifying prior distributions are considered, with special emphasis on subject-matter considerations and exchangeability. The regression model is examined to show how analytical methods may fail in the derivation of marginal posterior distributions. The remainder of the book is concerned with applications of the theory to important models that are used in economics, political science, biostatistics and other applied fields. New to the second edition is a chapter on semiparametric regression and new sections on the ordinal probit, item response, factor analysis, ARCH-GARCH and stochastic volatility models. The new edition also emphasizes the R programming language.

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76,90 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781107015319

Medium: Buch

ISBN: 978-1-107-01531-9

Verlag: Cambridge University Press

Erscheinungstermin: 27.06.2014

Sprache(n): Englisch

Auflage: 2. Auflage 2014

Produktform: Gebunden

Gewicht: 1000 g

Seiten: 272

Format (B x H): 183 x 260 mm

