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philosophical and methodological understanding of parameter estimation and inverse problems, specifically regarding such key issues as uncertainty, ill-posedness, regularization, bias, and resolution. The accompanying exercises include a mix of applied and We emphasize key theoretical points and applications with illustrative examples.

Parameter Estimation and Inverse Problems is structured around a course at New Mexico Tech and is designed to be accessible to typical graduate students in the physical sciences who may not have an extensive mathematical background. It is accompanied by a Web site that contains Matlab code corresponding to all examples.

It promotes a fundamental understanding of parameter estimation and inverse problem philosophy and methodology. It introduces readers to Classical and Bayesian approaches to linear and nonlinear problems, with particular attention to computational, mathematical, and statistical issues related to their application to geophysical problems.

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