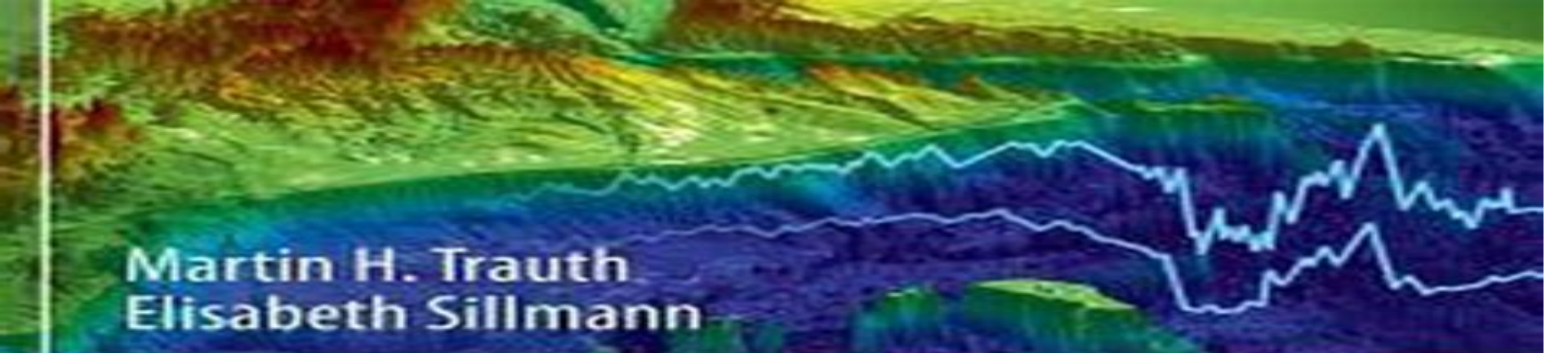


The top portion of the book cover features a topographic map with a color gradient from green to blue, representing elevation. Overlaid on this map are two white line graphs. One line is relatively smooth, while the other is highly jagged and oscillatory, resembling a seismic or geological data trace.

Martin H. Trauth
Elisabeth Sillmann

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How to Collect, Process and Present
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process and present geoscientific information collected during the course of an earth science project The book s supplementary electronic material available online through the publisher s website includes color versions of all figures recipes with all the MATLAB commands featured in the book the example data exported MATLAB graphics and screenshots of the most important steps involved in processing the graphics **GPS Stochastic Modelling** Xiaoguang Luo,2013-07-06

Global Navigation Satellite Systems GNSS such as GPS have become an efficient reliable and standard tool for a wide range of applications However when processing GNSS data the stochastic model characterising the precision of observations and the correlations between them is usually simplified and incomplete leading to overly optimistic accuracy estimates This work extends the stochastic model using signal to noise ratio SNR measurements and time series analysis of observation residuals The proposed SNR based observation weighting model significantly improves the results of GPS data analysis while the temporal correlation of GPS observation noise can be efficiently described by means of autoregressive moving average ARMA processes Furthermore this work includes an up to date overview of the GNSS error effects and a comprehensive description of various mathematical methods **Choice** ,2006 *MATLAB® Recipes for Earth Sciences* Martin Trauth,2006-02-13

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