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Applied Time History Processing and Interpretation: Strong Motion Record Manipulation for Dynamic Analysis with Tips and Tricks for Data Evaluation (Paperback)

By Andreas J Felber Ph D

Createspace Independent Publishing Platform, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. This book provides the fundamental techniques required by anyone interpreting discrete test data, conducting time history analysis or interpreting its results. The concepts involved in the sampling of continuous phenomena to obtain discrete time series are presented mainly in the context of strong motion or ambient data. The book covers topics related to dynamic testing, modeling and analysis, as well as the selection of time history records. Some of the examples presented here can be used to verify or augment routines implemented in black box time history manipulation software that readers might already be using. The time histories treated in this book can be from strong motion recording, from measurements of structures during dynamic tests, or from outputs of time history analyses of structural models. The book provides the tools for the preparation and interpretation of the input data for dynamic analysis and for the evaluation of output data. This should allow the reader to understand the quality of the information that is fed into dynamic analysis algorithms. Thus, if properly applied, it should help guard against the garbage...



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Reviews

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Good electronic book and valuable one. It really is basic but unexpected situations in the 50 percent in the pdf. You wont really feel monotony at at any moment of your time (that's what catalogues are for concerning when you ask me).

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