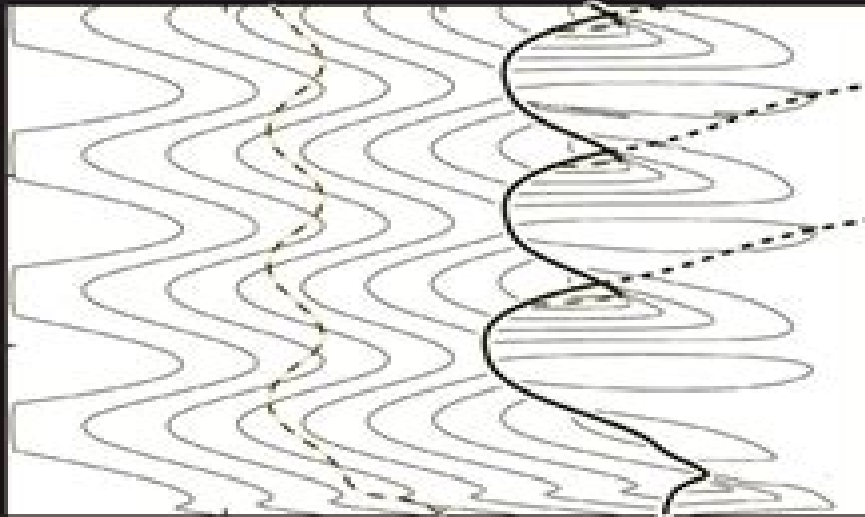


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# A Shock-Fitting Primer



Manuel D. Salas



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# A Shock Fitting Primer Chapman Hallcrc Applied Mathematics Nonlinear Science

**Gui-qiang Chen, Chun Liu, Tatsien Li**



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engineering systems such as spacecraft attitude determination GPS navigation orbit determination and aircraft tracking With more than 100 pages of new material this reorganized and expanded edition incorporates new theoretical results a new chapter on advanced sequential state estimation and additional examples and exercises MATLAB codes are available on the book's website [Chapman & Hall/CRC applied mathematics and nonlinear science](#) , [Understanding Nonlinear Dynamics](#) Daniel Kaplan, Leon Glass, 1997-12-19 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs About the Authors Daniel Kaplan specializes in the analysis of data using techniques motivated by nonlinear dynamics His primary interest is in the interpretation of irregular physiological rhythms but the methods he has developed have been used in geo physics economics marine ecology and other fields He joined McGill in 1991 after receiving his Ph D from Harvard University and working at MIT His undergraduate studies were completed at Swarthmore College He has worked with several instrumentation companies to develop novel types of medical monitors **Nonlinear Dynamics and Chaos** J. M. T. Thompson, H. B. Stewart, 2002-02-15 Nonlinear dynamics and chaos involves the study of apparent random happenings within a system or process The subject has wide applications within mathematics engineering physics and other physical sciences Since the bestselling first edition was published there has been a lot of new research conducted in the area of nonlinear dynamics and chaos Expands on the bestselling highly regarded first edition A new chapter which will cover the new research in the area since first edition Glossary of terms and a bibliography have been added All figures and illustrations will be modernised Comprehensive and systematic account of nonlinear dynamics and chaos still a fast growing area of applied mathematics Highly illustrated Excellent introductory text can be used for an advanced undergraduate graduate course text [Nonlinear Conservation Laws, Fluid Systems And Related Topics](#) Gui-qiang Chen, Chun Liu, Tatsien Li, 2009-06-12 This book is a collection of lecture notes on Nonlinear Conservation Laws Fluid Systems and Related Topics delivered at the 2007 Shanghai Mathematics Summer School held at Fudan University China by world's leading experts in the field The volume comprises five chapters that cover a range of topics from mathematical theory and numerical approximation of both incompressible and compressible fluid flows kinetic theory and conservation laws to statistical theories

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