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# Mathematics Applied to Deterministic Problems in the Natural Sciences



C. C. Lin  
L. A. Segel

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# Mathematics Applied To Deterministic Problems In The Natural Sciences

**Bernd Fischer**



## **Mathematics Applied To Deterministic Problems In The Natural Sciences:**

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Addresses the construction analysis and interpretation of mathematical models that shed light on significant problems in the physical sciences The authors case studies approach leads to excitement in teaching realistic problems The many problems and exercises reinforce test and extend the reader's understanding This reprint volume may be used as an upper level undergraduate or graduate textbook as well as a reference for researchers working on fluid mechanics elasticity perturbation methods dimensional analysis numerical analysis continuum mechanics and differential equations *Mathematics Applied to Deterministic Problems in the Natural Sciences*, 1995

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Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors **Laser Dynamics** Thomas Erneux, Pierre Glorieux, 2010-04-29 Bridging the gap between laser physics and applied mathematics this book offers a new perspective on laser dynamics Combining fresh treatments of classic problems with up to date research asymptotic techniques appropriate for nonlinear dynamical systems are shown to offer a powerful alternative to numerical simulations The combined analytical and experimental description of dynamical instabilities provides a clear derivation of physical formulae and an evaluation of their significance Starting with the observation of different time scales of an operating laser the book develops approximation techniques to systematically explore their effects Laser dynamical regimes are introduced at different levels of complexity from standard turn on experiments to stiff chaotic spontaneous or driven pulsations Particular attention is given to quantitative comparisons between experiments and theory The book broadens the range of analytical tools available to laser physicists and provides applied mathematicians with problems of practical interest making it invaluable for graduate students and researchers

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fundamentals of the theory of ordinary differential equations

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Multiple Decision Procedures Shanti S. Gupta,S.

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