

# Consider a Spherical Cow

*A Course in  
Environmental  
Problem Solving*

**JOHN HARTE**



$6\pi\eta vr =$   
frictional force  
resisting  
downward motion

$mg =$  gravitational  
force downward



$$5.669 \times 10^{-8} \frac{\text{J}}{\text{m}^2 \cdot \text{K} \cdot \text{sec}}$$

# Consider A Spherical Cow A Course In Environmental Problem Solving

**John Harte**



## **Consider A Spherical Cow A Course In Environmental Problem Solving:**

**Consider a Spherical Cow** John Harte, 1988-01-17 Offers a variety of techniques for approaching contemporary environmental problems such as energy and water resources food production indoor air pollution acid rain human influences on climate and so on Back cover

Consider a Spherical Cow, second edition John Harte, Maxine Singer, 2024-03-06 This textbook teaches how to make and derive useful insight from relatively simple models of many seemingly complex environmental problems facing our world today This new edition of Consider a Spherical Cow teaches basic mathematical modeling skills that are widely applicable to a huge range of environmental problems facing the world today Organized both by modeling tools and environmental topics this innovative book includes 56 posed problems and worked out solutions Readers will find introductions to topics extensive pedagogic material explaining how to use the relevant modeling tools and opportunities to think more deeply about or confirm steps in the provided solutions This new edition includes 101 new quantitative homework exercises an appendix compendium of updated environmental data a glossary and a bibliography plus entirely new sections on probability toxics radiation and radioactivity and epidemics With wide topical coverage Harte teaches the math step by step in the context of actual posed environmental problems emphasizes limitations and strengths of models and describes practical applications to real problems and situations Along with the many worked out problems discussion questions and quantitative problems are provided as exercises for the reader The book emphasizes creative applications of math to environmental science not plug in problems

Consider a Spherical Cow John Harte, 1985

**Critical Skills for Environmental Professionals** Jennifer Pontius, Alan McIntosh, 2019-12-20 This textbook focuses on a set of skills based learning outcomes common among undergraduate environmental programs It covers critical scientific skills and ways of thinking that bridge the gap between the knowledge based content of introductory environmental textbooks and the professional skills students of the environment need to succeed in both their academic programs and professional careers This emphasis on skills is gaining more traction among academic programs across the country as they shift focus from knowledge delivery to learning outcomes and professional competencies The book features clear methodological frameworks engaging practice exercises and a range of assessment case studies suitable for use across academic levels For introductory levels this text uses guided practice exercises to expose students to the skills they will need to master At the capstone level this text allows students to apply the knowledge they have gained to real world issues and to evaluate their competency in key programmatic learning outcomes A detailed answer key with rubrics customized for specific questions and sample answers at various competency levels is available to verified course instructors Access to these answer key resources can be obtained by contacting the Springer Textbook Team at Textbooks.springer.com

A Primer on Human Impacts on the Environment Liam Heneghan, 2023-03-14 An insightful and illuminating discussion of the impact humans have had on Earth In A Primer on Human Impacts on the Environment The Conceptual Approach distinguished environmental

scientist Liam Heneghan explores the intricate relationships between humanity and Earth in an accessible and engaging style. Replete with real world examples and drawing from classic and contemporary scholarship, the author adapts the fundamental conceptual models of the environmental disciplines to assess the risks human beings are taking with their home planet. The conceptual approach of this primer challenges readers to think across multiple disciplines to reveal the big picture that is all too often lost in the details of contemporary environmental studies. Readers will also find a thorough introduction to conceptual modeling showing how systems models can be adapted and applied in a rapidly changing world. Comprehensive explorations of the human impact on the Earth including an examination of possible ecological limits and planetary boundaries. In depth evaluations of environmental risks especially though not limited to climate change and biodiversity loss. A guide to contemplating catastrophic risk and the potential for societal collapse without inducing unnecessary anxiety. An interdisciplinary focus emphasizing the role of the natural and social sciences as well as the arts and humanistic disciplines in safeguarding the future. Perfect for students of environmental science and environmental studies. A Primer on Human Impacts on the Environment will also earn a place in the libraries of graduate students working on environmental themes and practicing professionals in the environmental management community.

Turning Numbers Into Knowledge Jon Koomey, 2008. Mastering the art of problem solving takes more than proficiency with basic calculations; it requires understanding how people use information, recognizing the importance of ideology, learning the art of storytelling, and acknowledging the important distinction between facts and values. Intended for professors, managers, entrepreneurs, and students, this guide addresses these and other essential skills. With clear prose, quotations, and exercises for solving problems in the real world, this book serves as an ideal training manual for those who are new to or intimidated by quantitative analysis and an excellent refresher for those who have more experience but want to improve the quality of their data, the clarity of their graphics, and the cogency of their arguments. Publisher's description.

**Surfing the Quantum World** Frank S. Levin, 2017. The ideas and phenomena of the quantum world are strikingly unlike those encountered in our visual world. This book shows why and how this is so via a gentle introduction to the principles of quantum theory. It is used to explain both ordinary microscopic phenomena like the structure of the Periodic Table of Elements and mind bending phenomena.

*Northeastern Geology and Environmental Sciences*, 2001. **The Commonwealth**, 1989. *The New Professor's Handbook* Cliff I. Davidson, Susan A. Ambrose, 1994-07-15. This book is an ideal resource for those making the transition from graduate student to new faculty member in engineering and science. Developed through years of use with new faculty, it tackles the two themes that will be constant in a young faculty member's career: teaching and research. The book first distills the abundant literature that has already been published on teaching, covering student learning and course planning, conducting discussions and lecturing, creating exams and assignments, and working with teaching assistants. Bringing together guidance gained from numerous seminars, discussions, and interviews, and the little existing in current literature on

starting and conducting scientific research the next section includes assembling research teams supervising graduate research getting research funding writing research papers reviewing research proposals presenting results and conducting graduate seminar programs The book features practical chapter exercises that apply concepts and it concludes with an extensive bibliography It will be of help to any faculty member embarking on a teaching and research career in higher education in the sciences

Research in Human Ecology Luc Hens,1998      **Nonlinear System Identification** Christian Ray Storm,2003      Representing Kinship Franklin Edmund Tjon Sie Fat,1990 With Dutch summary      Bibliography and Index of Geology ,1987      *Current Geographical Publications* University of Wisconsin--Milwaukee. Library,1986 Current Geographical Publications CGP is a non profit service to the scholarly community initiated in 1938 by the American Geographical Society of New York Beginning in 2006 the format changed to include the tables of contents of current geographical journals The journal titles listed link to web pages or PDF scans of the current issue s contents      **Acid Precipitation** ,1987      *Ecological and Social Dimensions of Global Change* David D. Caron,1994      **The Source Book 2** Alan R. Sandler,1988      *Law Books in Print: Title index* Glanville Publishers, Incorporated,1997      **Law Books in Print: Author index** Nicholas Triffin,1997

## **Consider A Spherical Cow A Course In Environmental Problem Solving** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Consider A Spherical Cow A Course In Environmental Problem Solving**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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