

# ECONOMIC AND ENVIRONMENTAL RISK AND UNCERTAINTY

*New Models and Methods*

edited by

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# Economic And Environmental Risk And Uncertainty New Models And Methods

**Yijin Wang**



## **Economic And Environmental Risk And Uncertainty New Models And Methods:**

Economic and Environmental Risk and Uncertainty Robert Nau,Erik Grønn,Mark Machina,Olvar Bergland,1997-05-31

The 1980s and 1990s have been a period of exciting new developments in the modelling of decision making under risk and uncertainty Extensions of the theory of expected utility and alternative theories of non expected utility have been devised to explain many puzzles and paradoxes of individual and collective choice behaviour This volume presents some of the best recent work on the modelling of risk and uncertainty with applications to problems in environmental policy public health economics and finance Eighteen papers by distinguished economists management scientists and statisticians shed new light on phenomena such as the Allais and St Petersburg paradoxes the equity premium puzzle the demand for insurance the valuation of public health and safety and environmental goods Audience This work will be of interest to economists management scientists risk and policy analysts and others who study risky decision making in economic and environmental contexts

## **Environmental Laws and Their Enforcement - Volume II** A. Dan Tarlock,John C. Dernbach,2009-11-25

Environmental Laws and Their Enforcement is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The volume on Environmental Laws and Their Enforcement deals in two volumes with a myriad of issues of great relevance to our world such as Sustainable Development and National Governance History of Environmental Law International Environmental Law Constitutional Law International Binding Mechanisms Laws Governing Freshwater and Ground Water Pollution Forestry Biodiversity Conservation and Endangered Species Protection International Guidelines and Principles Compliance Models for Enforcement of Environmental Laws And Regulations International Environmental Law Life Support Systems Law and Policy The Principle of Sustainable Development in International Development Law Environmental Pollution Regulations Social Concerns for Environmental Exposures to Toxic Substances Regulation of Air and Pollutants These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

*Contingent Valuation* R. Carson,2012-01-01 This major reference work the first of its kind provides a comprehensive and authoritative introduction to the large and growing literature on contingent valuation It includes entries on over 7 500 contingent valuation papers and studies from over 130 countries covering both the published and grey literatures This book provides an interpretive historical account of the development of contingent valuation the most commonly used approach to placing a value on goods not normally sold in the marketplace The major fields catalogued here include culture the environment and health application This bibliography is an ideal starting point for researchers wanting to find other studies that have valued goods or used techniques similar to those they are interested in For those wanting to conduct meta analyses the book will serve as an invaluable guide to source material For those wanting to conduct meta analyses the book will serve as an invaluable guide to source material In addition

to the print edition we offer access for purchasers of the book to a website providing the contents of as a searchable Word document and in a variety of standard bibliographic database forms

Contingent Valuation is an indispensable reference source for researchers scholars and policymakers concerned with survey approaches to the problem of environmental valuation

*Coping with Regional Vulnerability* Kiyoko Hagihara, Chisato Asahi, 2015-10-08 Whether a natural event turns into a disaster depends on the severity of the hazard as well as the condition of the social sphere of its potential victims i.e. vulnerability We focus on regional vulnerability considering the fact that regional socioeconomic conditions determine the aspects of the damage and thus the risk management policy This book provides the theory and methodology to understand and cope with regional vulnerability through an interdisciplinary approach The fields mainly included in this work are welfare and environmental economics the planning and management area of civil engineering and risk management In particular we focus on hazard and vulnerability surrounding water issues and provide readers with knowledge of how the regional analysis is incorporated into the vulnerability analysis Also considered is what risk management should be when the diversified regional background of the vulnerability is taken into account A feature of this book is that it provides contrastive regional coverage the vulnerability of a developed country urban and regional areas of Japan and that of a developing country Bangladesh The contents consist of three parts 1 Socioeconomic Vulnerability in a Regional Perspective 2 Evaluation of Regional Vulnerability and 3 Coping with Regional Vulnerability This book is highly recommended to researchers who need an up to date and interdisciplinary approach to deal with risk management where regional vulnerability plays an important role

**Greenhouse Economics** Clive Spash, 2020-10-28 Examining one of the most crucial issues in the modern world human induced climate change here Clive Spash provides a refreshing interdisciplinary perspective pulling together strands of natural science economics and ethics Described by John Gowdy as the best exposition to date on the political economy of climate policy this remarkable volume poses serious questions and gives intelligent answers The issues it addresses are relevant to a range of environmental problems and it covers themes such as How do we deal with uncertainty and ignorance What roles do science and economics play in policy formation To what extent should individuals take responsibility for the society in which they and their descendants live By rigorously examining international and governmental sources and key contemporary issues Spash provides an up to date and informative analysis A well organized study including a glossary and helpful acronym list this book will be of strong interest to students and academics in the fields of ecological and environmental economics and is essential reading for all those to whom climate change is a professional or personal concern

*Computational Models of Risks to Infrastructure* D. Skanata, D.M. Byrd, 2007-08-08 Deals with programs of infrastructure risk This title focuses on following issues such as the state of the art and practice gaps between the arts and practices ways to bridge the gaps and future research directions

**Environment and Planning**, 2004 Publishes interdisciplinary research on issues of Government and Policy with an international perspective Committed to a broad range

of policy questions not just those related to government and public policy Topics covered include nonstate agents private public collaboration and NGOs nongovernmental organisations All areas of economic social and environmental institutions and policy are included Disciplines from which papers are derived include political science planning geography economics law sociology and public administration

**Economic Valuation with Stated Preference Techniques** Ian Bateman, 2002 This manual offers a detailed up to date explanation of how to carry out stated preference techniques The techniques use surveys to ask individuals how much they would be willing to pay or willing to accept in compensation for gains or losses of non market goods and services Applications of the technique include changes in air and water quality noise nuisance health care risk recorded heritage cultural assets habitats Landscape and so on It shows how to choose the most appropriate technique and how to design the questionnaires Detailed advice on econometric analysis is provided as well as explanation of the pitfalls that need to be avoided

**Engineering Risk and Finance** Charles S. Tapiero, 2013-02-13 Risk models are models of uncertainty engineered for some purposes They are educated guesses and hypotheses assessed and valued in terms of well defined future states and their consequences They are engineered to predict to manage countable and accountable futures and to provide a frame of reference within which we may believe that uncertainty is tamed Quantitative statistical tools are used to reconcile our information experience and other knowledge with hypotheses that both serve as the foundation of risk models and also value and price risk Risk models are therefore common to most professions each with its own methods and techniques based on their needs experience and a wisdom accrued over long periods of time This book provides a broad and interdisciplinary foundation to engineering risks and to their financial valuation and pricing Risk models applied in industry and business health care safety the environment and regulation are used to highlight their variety while financial valuation techniques are used to assess their financial consequences This book is technically accessible to all readers and students with a basic background in probability and statistics with 3 chapters devoted to introduce their elements Principles of risk measurement valuation and financial pricing as well as the economics of uncertainty are outlined in 5 chapters with numerous examples and applications New results extending classical models such as the CCAPM are presented providing insights to assess the risks and their price in an interconnected dependent and strategic economic environment In an environment departing from the fundamental assumptions we make regarding financial markets the book provides a strategic game like approach to assess the risk and the opportunities that such an environment implies To control these risks a strategic control approach is developed that recognizes that many risks resulting by what we do as well as what others do In particular we address the strategic and statistical control of compliance in large financial institutions confronted increasingly with a complex and far more extensive regulation

**Interfaces** , 1999

**Handbook of Environmental Economics** Karl-Goran Maler, Jeffrey R. Vincent, 2005-12-09 Much applied environmental economics is concerned with the valuation of changes in environmental quality Obtaining reliable valuation estimates requires attention to theoretical and econometric

issues that are often quite subtle Volume 2 of the Handbook of Environmental Economics presents both the theory and the practice of environmental valuation It synthesizes the vast literature that has accumulated since the publication of the Handbook of Natural Resource and Energy Economics two decades ago It includes chapters on individual valuation methods written by researchers responsible for fundamental advances in those methods It also includes cross cutting chapters that deal with aspects of welfare theory uncertainty experimental methods and public health that are pertinent to valuation Throughout the volume attention is paid to research and policy issues that arise not only in high income countries where most of the theory and econometrics that underlie applied valuation methods have been developed but also in poorer parts of the world The volume provides a state of the art reference for scholars and practitioners alike **Handbook of**

**Environmental Economics** Karl-Göran Mäler,Jeffrey R. Vincent,2003 The Handbook of Environmental Economics focuses on the economics of environmental externalities and environmental public goods Volume I examines environmental degradation and policy responses from a microeconomic institutional standpoint Its perspective is dynamic including a consideration of the dynamics of natural systems and global with attention paid to issues in both rich and poor nations In addition to chapters on well established topics such as the theory and practice of pollution regulation it includes chapters on new areas of environmental economics research related to common property management regimes population and poverty mechanism design political economy of regulation experimental evaluations of policy instruments and technological change

*Risk Assessment Methods* V.T. Covello,M.W. Merkhoher,2013-06-29 Much has already been written about risk assessment Epidemiologists write books on how risk assessment is used to explore the factors that influence the distribution of disease in populations of people Toxicologists write books on how risk assessment involves exposing animals to risk agents and concluding from the results what risks people might experience if similarly exposed Engineers write books on how risk assessment is utilized to estimate the risks of constructing a new facility such as a nuclear power plant Statisticians write books on how risk assessment may be used to analyze mortality or accident data to determine risks There are already many books on risk assessment the trouble is that they all seem to be about different subjects This book takes another approach It brings together all the methods for assessing risk into a common framework thus demonstrating how the various methods relate to one another This produces four important benefits First it provides a comprehensive reference for risk assessment This one source offers readers concise explanations of the many methods currently available for describing and quantifying diverse types of risks Second it consistently evaluates and compares available risk assessment methods and identifies their specific strengths and limitations Understanding the limitations of risk assessment methods is important The field is still in its infancy and the problems with available methods are disappointingly numerous At the same time risk assessment is being used *Directory of Published Proceedings* ,2004 *The Earthscan Reader in Environmental Economics* Anil Markandya,2017-10-03 Environmental economics may hold the key to the successful management of the

world's accelerating environmental problems from transport and pollution to the wholesale degradation of much of the Third World climate change and loss of the ozone layer Increasingly a range of professionals and policy makers as well as environmentalists and the economists themselves are turning to it to show how to arrive at decisions on these complicated and vital issues This reader brings together the most important contributions to the subject Sections of it cover the theoretical issues the different ways of valuing the environment economic instruments of environmental policy environment and development and global environmental problems An extensive introduction by the editors maps out the area and the development of the arguments within it As a whole the volume makes an indispensable sourcebook for those in any way involved with these questions Anil markandya is one of the authors of *Blueprint for a Green Economy* and *Blueprint 2 Greening the Global Economy*

**Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods** Olej, Vladimir, Obr?lov, Ilona, Krupka, Jiri, 2010-11-30 Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels Sustainable development involves not only preservation and care of the environment but also recognition of the complex relations between economic social and living systems *Environmental Modeling for Sustainable Regional Development System Approaches and Advanced Methods* presents processing methods and their applications which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment This book serves as a reference guide for post graduate students in the field of management as well as a critical guide for managers government officials and information professionals

*Models of Economic Growth with Environmental Assets* A. Beltratti, 2013-03-09 The connection between economic growth and the quality of the environment is a popular subject Since the second half of the 1980s there has been an increasingly frequent use of the term sustainable development to refer to the preoccupation that the production of goods and services may decrease standards of living It is natural to analyze this question from the point of view of economic models which may be helpful in at least identifying the main factors behind such preoccupations and perhaps in suggesting policy measures Indeed models are useful to discuss some relevant factors like the structure of production of the economy the type of preferences and goals pursued by agents and the elements of uncertainty This monograph will consider some of these themes there will be a study of the analytical framework which can be used for the purpose of defining and analyzing sustainability and some discussion of how to calibrate a restricted version of the model to empirical data There will be also some analysis about which type of uncertainty should be incorporated into the model and which objective functions may be useful for policy purposes Also there will be discussions about the key variables which should be included and some description of a general framework

Rationality Concepts in Environmental Valuation Oliver Frör, 2007 Survey based valuation techniques like the Contingent Valuation Method CVM rely particularly on the premise of respondents rationality

when answering willingness to pay WTP questions Results of CVM surveys have repeatedly put this fundamental assumption into question This study adopts a more realistic view of rationality accounting for respondents limited capacities to process information Based on cognitive psychology a technique to detect and analyze the bounds of rationality inherent in WTP statements is developed Using an empirical example the influence of bounded rationality on the validity of CVM results is analyzed It is shown that individual differences in information processing play a major role From these results recommendations for future survey design are developed Mathematical Reviews ,1998



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the objectives of the boiling point determination lab were to determine the boiling point of a mystery substance provided to each student boiling point is the point at which a liquid changes physical states and becomes a vapor or gas boiling point is important to understand because it can be used to help distinguish between different substances

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the boiling point of an organic liquid is the temperature at which its vapour pressure equals the atmospheric pressure over the liquid or it is the temperature at which the vapour and liquid phases are in equilibrium at a given pressure the boiling point is considered as a criterion of purity of a compound and is useful for identification of

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given that the boiling points of ethanol and methanol 78 °C and 64 °C respectively are far off in a significant way this seems like a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the powdered acetamide occupies 1-2 mm of the capillary tube end c

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boiling point determination lab report conclusion objectives to correctly measure boiling issues of various liquids and identify an unknown liquid based on its boiling point background information objects can be distinguished into acid properties and physical properties

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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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introduction in this lab we will be using boiling points melting points and infrared spectrometry to identify unknown compounds boiling points are affected by three key factors the first being intermolecular forces intermolecular forces affect boiling point based on bond strength

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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clean up solid and liquid spills immediately true g conclusions after conducting the boiling point determination lab it can be concluded that the unknown substance 193 is isopropyl alcohol on account of its observed boiling point of 88 c

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the mel temp apparatus compound a had a melting point range of 114 6 115 5 c thus revealing it to be acetanilide compound b had a melting point range of 122 6 124 5 c thus

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nov 27 2019 essay sample the purpose of this experiment is to determine the boiling points of various organic compounds and to use these to identify unknowns equipment free essays

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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aug 11 2020 boiling points are very sensitive to changes in applied pressure so all boiling points should be reported with the measured pressure a compound s normal boiling point refers to its boiling point at a pressure of 760 text mm ce hg

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

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exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals □ correctly determine the boiling point of an unknown liquid □ measure the refractive index of an unknown □ use the gas chromatogram to determine the mass percentage of a mixture and

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50 c so in order to convert an experimental measurement taken in calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that need to be determined by physical properties such as boiling point melting point density solubility etc in this experiment i am to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a bunsen burner boiling

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there are a variety of methods by which a sample s boiling point can be determined including distillation reflux and by using a thiele tube the most straightforward method uses a thiele tube and has the advantage of using less than 0 5ml 0 5 ml of material

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