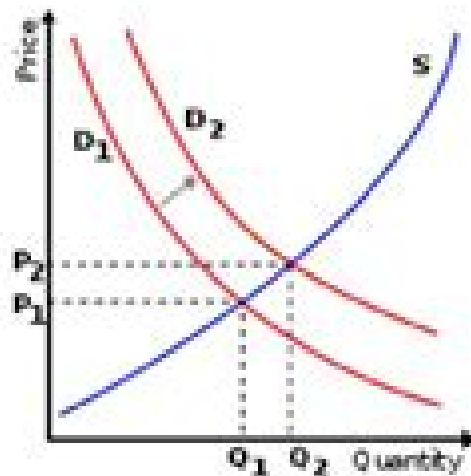


study of economies or economic phenomena of the past

combination of historical methods, statistical methods and the application of economic theory to historical situations and institutions



A supply and demand diagram, illustrating the effects of an increase in demand

# Econometric History

**G Orfield**



## **Econometric History:**

**Econometric History** Deirdre N. McCloskey, 1987      *The Economics of Slavery* Alfred H. Conrad, John Robert Meyer, 2007

How are economists and historians to explain what happened in history? What statistical inferences can be drawn from historical data? The authors believe that explanation in history can be identified with the problems of prediction in a probabilistic universe. Using this approach, the historian can act upon his a priori information and his judgment of what is unique and particular in each past event, even with data hitherto considered to be intractable for statistical treatment. In essence, the book is an argument for and a demonstration of the point of view that the restricted approach of measurement without theory is not necessary in history or at least not necessary in economic history. After two chapters of theoretical introduction, the authors explore the meanings and implications of evidence, explanation, and proof in history by applying econometric methods to the analysis of three major problems in 19th century economic history: the profitability of slavery in the antebellum South, income growth and development in the United States during the 1800s, and The Great Depression in the British economy. Also included is a postscript on growth, reassessing some current arguments in the light of the findings of these papers. The book presents an original and provocative approach to historical problems that have long plagued economists and historians and provides the reader with a new approach to these and similar questions. Alfred H. Conrad is professor of business administration at Harvard University. Much of Conrad's work has appeared in professional journals. John R. Meyer is James W. Harpel Professor of Capital Formation and Economic Growth, emeritus at Harvard University. Meyer's books include *The Investment Decision* and *Economics of Competition in the Transportation Industry*. He has served as a board member and economic advisor for various businesses.

**A History of Econometrics** Duo Qin, 2013-07-25

Written from the Haavelmo-Cowles Commission econometric perspective, this book provides an account of the advances in the field of econometrics since the 1970s.      *The economics of slavery and other studies in econometric history* Alfred H. Conrad, Historical essays on profitability of slavery in the ante bellum South, income growth in 19th century America, and the Great Depression in the British economy.

**The Years of High Econometrics** Francisco Louçã, 1998-11-05

A fascinating and comprehensive history, this book explores the most important transformation in twentieth century economics: the creation of econometrics. Containing fresh archival material that has not been published before and taking Ragnar Frisch as the narrator, Francisco Louca discusses both the key events: the establishment of the Econometric Society, the Cowles Commission, and the journal *Econometrica*, and the major players: economists like Wesley Mitchell, mathematicians like John von Neumann, and statisticians like Karl Pearson in history that shaped the development of econometrics. He discusses the evolution of their thought, detailing the debates, the quarrels, and the interrogations that crystallized their work, and even offers a conclusion of sorts suggesting that some of the more influential thinkers abandoned econometrics or became critical of its development. International in scope and appeal, *The Years of High Econometrics* is an excellent accompaniment for students taking courses

on probability econometric methods and the history of economic thought

### **A History of Macroeconometric**

**Model-building** Ronald G. Bodkin, Lawrence Robert Klein, Kanta Marwah, 1991 This major book presents for the first time an authoritative history of developments in macroeconometric modelling since the 1930s It focuses in particular on the construction of mathematical statistical models of entire economies estimated from national accounts and other macroeconomic data International and comparative in scope the book contains chapters prepared by specialists from the different countries concerned This landmark book is indispensable to an understanding of the history and development of large scale econometric models of modern economies [A History of Econometrics in France](#) Philippe Le Gall, 2007-03-22

This text challenges the traditional view of the history of econometrics and provides a more complete story In doing so the book sheds light on the hitherto under researched contribution of French thinkers to econometrics Fascinating and authoritative it is a comprehensive overview of what went on to be one of the defining subsets within t

### **A History of**

**Econometrics** R.J. Epstein, 2014-06-28 This comparative historical study of econometrics focuses on the development of econometric methods and their application to macroeconomics The analysis covers the origins of modern econometrics in the USA and Europe during the 1920 s and 30 s the rise of structural estimation in the 1940 s and 50 s as the dominant research paradigm and the crisis of the large macroeconomic models in the 1970 s and 80 s The completely original feature of this work is the use of previously unknown manuscript material from the archives of the Cowles Commission and other collections The history so constructed shows that recent debates over methodology are incomplete without understanding the many deep criticisms that were first raised by the earliest researchers in the field

### **The History of Econometric Ideas**

Mary S. Morgan, 1990 This book illustrates how economists first learnt to harness statistical methods to measure and test the laws of economics *History by Numbers* Pat Hudson, Mina Ishizu, 2016-11-17 Fully updated and carefully revised this new 2nd edition of *History by Numbers* stands alone as the only textbook on quantitative methods suitable for students of history Even the numerically challenged will find inspiration Taking a problem solving approach and using authentic historical data it describes each method in turn including its origin purpose usefulness and associated pitfalls The problems are developed gradually and with narrative skill allowing readers to experience the moment of discovery for each of the interpretative outcomes Quantitative methods are essential for the modern historian and this lively and accessible text will prove an invaluable guide for anyone entering the discipline

### **Economics and History**

David Greasley, Les Oxley, 2011-10-13 *Economics and History* presents six state of the art surveys from some of the leading scholars in cliometrics The contributions are all written at an accessible level for the non specialist reader and consider a broad range of issues from this highly topical area Written clearly and comprehensively allowing easy accessibility for the non specialist reader Brings together the very latest research in this highly topical subject from leading scholars Contributions cover a broad range of areas within this subject The latest publication in the highly successful *Surveys of Recent Research in Economics Book Series*

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Pluralistic Economics and Its History Ajit Sinha, Alex M. Thomas, 2019-05-24 This volume is a history of economics as it was interpreted discussed and established as a discipline in the 20th century It highlights the pluralism of the discipline and brings together leading voices in the field who reflect on their lifelong work The chapters draw on a host of traditions of economic thought including pre classical classical Marxian neoclassical Sraffian post Keynesian Cantabrigian and institutionalist traditions in economics Further the volume also looks at the history of economics in India and its evolution as a discipline since the country s independence This book will appeal to students researchers and teachers of economics and intellectual history as well as to the interested general reader

**Writing History** Stefan Berger, Heiko Feldner, Kevin Passmore, 2020-02-20 The third edition of Writing History provides students and teachers with a comprehensive overview of how the study of history is informed by a broader intellectual and analytical framework exploring the emergence and development of history as a discipline and the major theoretical developments that have informed historical writing Instead of focusing on theory this book offers succinct explanations of key concepts that illuminate the study of history and practical writing and demonstrates the ways they have informed practical work This fully revised new edition comprehensively rewrites and updates original chapters but also includes new features such as new chapters on postcolonial environmental and transnational history chapter introductions setting them within the context of historiography a new substantive introduction from the editors providing a useful road map for students an expanded glossary In its new incarnation Writing History is more than ever an invaluable introduction to the central debates that have shaped history

**Handbook on the History of Economic Analysis Volume III** Gilbert Faccarello, Heinz D. Kurz, 2016-07-27 This unique troika of Handbooks provides indispensable coverage of the history of economic analysis Edited by two of the foremost

academics in the field the volumes gather together insightful and original contributions from scholars across the world The encyclopaedic breadth and scope of the original entries will make these Handbooks an invaluable source of knowledge for all serious students and scholars of the history of economic thought

#### **The Formation of Econometrics** Duo Qin,1997

Duo Qin has produced a study of a crucial period in the history of econometrics She analyses the development of the theory and methodology between 1930 and 1960 arguing in particular that the probability revolution of the 1940s was incomplete and resulted in later problems

*Advances in Economics and Econometrics: Theory and Applications* Econometric Society.

World Congress,1997-02-20 These books comprise papers examining the latest developments in economic theory applied economics and econometrics presented at the Seventh World Congress of the Econometric Society in Tokyo in August 1995 The topics were carefully selected to represent the most active fields in the discipline over the past five years Written by the leading authorities in their fields each paper provides a unique survey of the current state of knowledge in economics

Designed to make the material accessible to a general audience of economists these volumes should be helpful to anyone with a good undergraduate training in economics who wishes to follow new ideas and tendencies in the subject

#### **The Practice of Econometric Theory** Charles G. Renfro,2009-06-29

Econometric theory as presented in textbooks and the econometric literature generally is a somewhat disparate collection of findings Its essential nature is to be a set of demonstrated results that increase over time each logically based on a specific set of axioms or assumptions yet at every moment rather than a finished work these inevitably form an incomplete body of knowledge The practice of econometric theory consists of selecting from applying and evaluating this literature so as to test its applicability and range The creation development and use of computer software has led applied economic research into a new age This book describes the history of econometric computation from 1950 to the present day based upon an interactive survey involving the collaboration of the many econometricians who have designed and developed this software It identifies each of the econometric software packages that are made available to and used by economists and econometricians worldwide

#### **The Formation of Econometrics** Qin Duo,1993-09-16

Duo Qin has provided a scholarly study of a crucial period in the history of econometrics She traces the formation of econometric theory during the period 1930 1960 and focuses on the formalization of mathematical and scientific processes to analyse economic problems This book deals with the advances made in the practice of econometrics as a discipline in terms of the basic issues is econometric modelling the probability of foundations estimations identification testing and model construction and specification Duo Qin argues that while the probability revolution in econometrics in the early 1940s laid the basis for the systematization of econometric theory it was actually an incomplete revolution and its incompleteness underlay various problems and failures that occurred in applying the newly established theory to modelling practice Model construction and hypothesis testing remained problematic because the basic problem of induction in econometrics was not properly formalized and solved The book thus links early econometric history with many issues of

interest to contemporary developments in econometrics

The New History Theodore K. Rabb, Robert I.

Rotberg, 2017-03-14 In this volume a diverse group of leading historians analyzes the future needs of their craft and suggests the many ways in which scholars of the near future will interpret the events of earlier years Originally published in 1983 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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web jan 26 2016 the solubility product or ksp is a way of showing how effective a chemical is at dissolving into an aqueous solution the higher the ksp the more the chemical will dissolve into that solvent for this lab calcium hydroxide is created then ionized  $\text{Ca(OH)}_2$  when calcium is put in water reacts as follows  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web k sp of calcium hydroxide 1 author j m mccormick last update october 13 2013 introduction an equilibrium constant  $K$  is related to  $\Delta G$  for a process through eqn 1 and as long as  $\Delta H$  and  $\Delta S$  are independent of temperature eqn 1 can be combined with eqn 2 to determine  $\Delta H$  and  $\Delta S$  from the temperature dependence of  $K$

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web sep 18 2020 in this experiment we will titrate a saturated calcium hydroxide solution with a standardized hcl solution we will determine the hydroxide ion concentration for the saturated calcium hydroxide

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web your primary objective in this experiment is to test a saturated solution of calcium hydroxide and use your observations and measurements to calculate the ksp of the compound you will do this by titrating the prepared  $\text{Ca(OH)}_2$  solution with a standard hydrochloric acid solution

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web in today's experiment you will determine the solubility product ksp of calcium hydroxide  $\text{Ca(OH)}_2$  by measuring the concentration of  $\text{Ca(OH)}_2$  in a saturated solution calcium hydroxide is a sparingly soluble salt that dissolves according to the following reaction the solubility product expression for this reaction is

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web expert verified chem 182 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water a saturated aqueous solution of  $\text{Ca(OH)}_2$  is represented in equation form as shown below  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$  the solubility product expression describes in mathematical terms the equilibrium

ksp for calcium hydroxide university of manitoba - Dec 31 2022

web ksp for calcium hydroxide calcium hydroxide is a soft white caustic powder used in making mortar cements calcium salts paints and petrochemicals it is also used in saltwater aquaria to make up kalkwasser limewater solutions for reef tanks and is used as a pH regulating agent notice that calcium hydroxide is divalent and thus has twice

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web use the concentration of calcium hydroxide to calculate the concentration of calcium ions and hydroxide ions in the solution  $\text{Ca(OH)}_2 \rightarrow \text{Ca}^{2+} + 2\text{OH}^-$   $5 \times 10^{-2} \text{ M}$  calcium ions  $5 \times 10^{-2} \text{ M}$   $2 \times 10^{-2} \text{ M}$  hydroxide ions calculate calcium hydroxide ksp using the concentrations of calcium ions and hydroxide ions

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web madison bowe elana keller april 15 2014 introduction the objective of this lab was to measure the ksp of a slightly soluble basic salt and how solubility changes with temperature ksp is another form of equilibrium expression that deals with solubility the reaction that will take place is  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$

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web question experiment 8 determining ksp for calcium hydroxide post lab report sheet data table 2 points trial 1 trial 2 hci molarity 0.050 M volume of filtered  $\text{Ca(OH)}_2$  solution ml 5.00 5.00 3.71 13.75 equivalence point volume ml OH<sup>-</sup> in saturated  $\text{Ca(OH)}_2$  M  $\text{Ca}^{2+}$  in saturated  $\text{Ca(OH)}_2$  M ksp of  $\text{Ca(OH)}_2$  average ksp of  $\text{Ca(OH)}_2$

chemistry 1210 lab 11 experiment 11 determining the ksp of calcium - Sep 08 2023

web the chemical equation used was  $\text{Ca(OH)}_2 \rightleftharpoons \text{Ca}^{2+} + 2\text{OH}^-$  the solubility product was determined to be ksp  $\text{Ca}^{2+} \text{OH}^-$  from the

titration which was made by dripping a concentrated solution of calcium hydroxide into hydrochloric acid the calcium hydroxide was filtered before starting the titration

18 1 solubility product constant ksp chemistry libretexts - Feb 01 2023

web jul 12 2023 because the concentration of a pure solid such as  $\text{Ca}_3(\text{PO}_4)_2$  is a constant it does not appear explicitly in the equilibrium constant expression the equilibrium constant expression for the dissolution of calcium phosphate is therefore  $K_{\text{sp}} = [\text{Ca}^{2+}]^3 [\text{PO}_4^{3-}]^2$

**post lab report 8 determining the ksp of calcium hydroxide** - Jul 06 2023

web lab report 8 determining of calcium hydroxide the purpose of this was to titrate a saturated  $\text{Ca}(\text{OH})_2$  solution with a standard HCl solution and find the Ksp or the OH concentration was found and then the concentration was found and u for this experiment a titration of calcium hydroxide with hydrochloric acid

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web question determining the ksp of calciumhydroxide  $\text{Ca}(\text{OH})_2$  s  $\text{Ca}^{2+}$  aq  $2\text{OH}^-$  aq for this experiment the titration of calciumhydroxide with hydrochloric acid was investigated determining the ksp of calcium hydroxide  $\text{Ca}(\text{OH})_2$  s  $\text{Ca}^{2+}$  aq  $2\text{OH}^-$  aq for this experiment the titration of calcium

solved chem 182 experiment 8 determining the ksp of calcium chegg - Sep 27 2022

web question chem 182 experiment 8 determining the ksp of calcium hydroxide calcium hydroxide is an ionic solid that is sparingly soluble in water solution of  $\text{Ca}(\text{OH})_2$  is represented in equation form lution of calcium ionic solid that is sparingly soluble in water a saturated aqueous as shown below

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web therefore it was determined through error calculations and ease of use that the most reliable valid method to use to get the closest Ksp value to the theoretical Ksp for Ca was the determination through pH method 2 introduction calcium hydroxide is a strong base soluble in water

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web plasma membrane homework symbiosis practice worksheet benzoin condensation grade a determining the ksp of calcium hydroxide after reading the lab complete items a b c and d title purpose chemicals and equipment and summary of procedure as described on page 10 of exp 1 on an 8 1/2 x 11 sheet of paper

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web we will filter the solid calcium hydroxide from the solution and then titrate the dissolved calcium hydroxide in solution with a known concentration of hydrochloric acid using titrimetric calculations we will determine the  $\text{Ca}^{2+}$  and  $\text{OH}^{-}$  concentrations in solution

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