

PROBLEM 2.2

A 4.8-ft-long steel wire of $\frac{1}{4}$ -in.-diameter is subjected to a 750-lb tensile load. Knowing that $E = 29 \times 10^6$ psi, determine (a) the elongation of the wire, (b) the corresponding normal stress.

SOLUTION

(a) Deformation: $\delta = \frac{PL}{AE}; \quad A = \frac{\pi d^2}{4}$

Area: $A = \frac{\pi(0.25 \text{ in.})^2}{4} = 4.9087 \times 10^{-2} \text{ in}^2$

$$\delta = \frac{(750 \text{ lb})(4.8 \text{ ft} \times 12 \text{ in./ft})}{(4.9087 \times 10^{-2} \text{ in}^2)(29 \times 10^6 \text{ psi})}$$

$$\delta = 3.0347 \times 10^{-2} \text{ in.}$$

$$\delta = 0.0303 \text{ in.} \quad \blacktriangleleft$$

(b) Stress: $\sigma = \frac{P}{A}$

Area: $\sigma = \frac{(750 \text{ lb})}{(4.9087 \times 10^{-2} \text{ in}^2)}$

$$\sigma = 1.52790 \times 10^4 \text{ psi}$$

$$\sigma = 15.28 \text{ ksi} \quad \blacktriangleleft$$

Johnston Econometrics Method Chapter Solution

R Bogdan



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Econometrics, 2nd Rev. Ed Badi Hani Baltagi, 1998 This reference introduces the basic econometric methods and the underlying assumptions behind them It also includes a simple and concise treatment of more advanced topics in time series spatial correlation limited dependent variables and panel data models as well as specification testing Gauss Newton regressions and regression diagnostics The strengths of this book lie in presenting difficult material in a simple yet rigorous manner In addition the book features a set of empirical illustrations that demonstrate some of the basic results The empirical exercises are solved using several econometric software packages

Econometrics Badi H. Baltagi, 2007-12-03 Here at last is the fourth edition of the textbook that is required reading for economics students as well as those practising applied economics Not only does it teach some of the basic econometric methods and the underlying assumptions behind them but it also includes a simple and concise treatment of more advanced topics from spatial correlation to time series analysis This book's strength lies in its ability to present complex material in a simple yet rigorous manner This superb fourth edition updates identification and estimation methods in the simultaneous equation model It also reviews the problem of weak instrumental variables as well as updating panel data methods

[Selected Matrix Topics for Economists](#) Joseph Havlicek, 1974

Economics Reading Lists, Course Outlines, Exams, Puzzles & Problems: Econometrics reading lists, 1995

Essentials of Econometrics Damodar N. Gujarati, 2021-08-23 This updated Fifth Edition of Damodar N Gujarati's classic text provides a user friendly overview of the basics of econometric theory from ordinal logistic regression to time series Acclaimed for its accessibility brevity and logical organization the book helps beginning students understand econometric techniques through extensive examples many new to this edition careful explanations and a wide array of chapter ending questions and problems Major developments in the field are covered in an intuitive and informative way without resorting to matrix algebra calculus or statistics beyond the introductory level A companion website for the book includes resources for both instructors and students Further details are on the Resources tab above

Proceedings of the Social Statistics Section American Statistical Association. Social Statistics Section, 1983

Preface to Econometrics Michael Joseph Brennan, 1973

[Comparing National Social Performances](#) Francisco Parra Luna, 1974

Th se Sciences sociales Sciences politiques 1974

Inflation Propagation in Argentina Ronald Arthur Krieger, 1965

Proceedings of the Business and Economic Statistics Section American Statistical Association. Business and Economic Statistics Section, 1973

Introductory Econometrics Richard Leighton Thomas, 1993 Covers demand analysis consumers expenditure production functions and demand for money It combines theory applications and exercises New topics include maximum likelihood estimation extensions of classical linear models breakdowns in classical assumptions lagged variables

Introducing Econometrics William Stanley Brown, 1991

Modern Econometrics Richard Leighton Thomas, 1997

Aimed at undergraduate students this text aims to provide the basic background in statistics and matrix algebra in order to

give the necessary grounding for an understanding Separate chapters focus on the specification of models error correction models and co integration *Politics and Budgeting in the World Health Organization* Francis W. Hoole,1976 *Journal of the American Statistical Association* ,1994 **Technical Bulletin** ,1972 **System-theoretic Methods in Economic Modelling** S. Mittnik,E. Y. Rodin,1989 The value of applying system theoretic concepts to economic modelling problems arises from the fact that it offers a unifying framework for modelling dynamic systems In addition to offering this powerful conceptual framework it provides a wide range of tools useful in applied work System theoretic techniques enter predominantly two stages of economic modelling efforts the stage of model construction and the stage of model application in accordance with the modelling The objective of this and subsequent volumes on System Theoretic Methods in Economic Modelling I is to initiate and or intensify dialogues between researchers and practitioners within and across the disciplines involved This first volume brings together papers exhibiting a wide range of system theoretic techniques and applications to economic problems The papers have been divided into two groups following roughly but not necessarily the above classification into the construction and application stages of economic modelling The papers in the first group focus on the identification of dynamic and static systems while the papers in the second group address dynamic optimization problems

Theoretical Sociology; Perspectives and Developments John C. McKinney,Edward A. Tiryakian,1970

Introductory Econometrics R. Leighton Thomas,1985 *Quarterly of Applied Mathematics* ,1966

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