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### Legend

In order to identify immediately the type of product described above, please refer to the following abbreviation keys:

- |                            |                            |
|----------------------------|----------------------------|
| <b>BK = Book</b>           | <b>CD = CD-ROM or CD-I</b> |
| <b>DY = Dictionary</b>     | <b>HB = Handbook</b>       |
| <b>JN = Journal</b>        | <b>MV = Multi-volume</b>   |
| <b>RJ = Review Journal</b> | <b>RW = Reference Work</b> |
| <b>TB = Textbook</b>       |                            |



# Chemistry and Chemical Engineering

## Experimental Methods in Kinetic Studies, Revised Edition

Edited by **B.W. Wojciechowski**,  
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Kingston, Ontario, Canada,  
K7L 3N6

©2003 322 pages  
ISBN 0-444-51314-0 Hardbound  
Publication: February 2003  
Price: EUR 225 / USD 225

This book is a guide to kinetic studies of reaction mechanisms. It reviews conventional reactor types and data collection methods, and introduces a new methodology for data collection using Temperature Scanning Reactors.

It provides a theoretical and practical approach to temperature scanning (TS) methodology and supports a revival of kinetic studies as a useful approach to the fundamental understanding of chemical reaction mechanisms and the consequential reaction kinetics. This in turn will serve to put catalyst development on a quantitative and rational foundation.

### AUDIENCE

Professors, research directors, and individual researchers and teachers in kinetics, catalyst development and evaluation, reactor and process design. Industrial workers in catalyst development and process design. University departments and libraries for chemical engineering. Industry laboratories for chemical, petrochemical and catalysis research and development.

**Contents: Reactor Types and their Characteristics.** A broad classification of reactor types. The batch reactor. The plug flow reactor. The continuously stirred tank reactor. Other reactor types. General thoughts on reactor configurations.

**Collecting Data under Isothermal Operation.** Collecting raw data. Data processing and evaluation methods. Converting from concentrations to mole fractions. Calculating reaction rates.

**Using Kinetic Data in Reaction Studies.** The rate expression. Formulating kinetic rate expressions. Formulating elementary rate expressions. Identifying the region of kinetic rate control. Formulating mechanistic rate expressions. Uses of the mechanistic rate expression.

**Difficulties with Mechanistic Rate Expressions.** Problems of parameter scaling. The catalytic

rate expression. The integral method of data interpretation. Caveat. **The Theory of Temperature Scanning Operation.** The fundamentals. Operating a temperature scanning reactor. Application to various reactor types. Temperature scanning batch reactor. Temperature scanning plug flow reactor. Temperature scanning continuously stirred tank reactor. The temperature scanning stream swept reactor. Advanced scanning modes. Flow scanning modes. A simplified method of temperature scanning. Interpreting TSR data using integrated rate expressions. The future of temperature scanning.

**Verification of Kinetic Dominance.** Reaction rates: identifying extraneous effects. Testing for non-chemical influences. Catalyst instabilities. A suggestion.

**Processing of Data.** Transforming analytical results for data fitting. Calculating fractional conversion. Dealing with noise in experimental data. Data fitting. Suggested procedures for data clean-up. A quick review of matrix operations in mass balancing.

**Fitting Rate Expressions to TSR Data.** Fitting rate expressions to experimental data. Optimization algorithms. Summary of optimization methods. Choosing a data fitting procedure.

**Interpretation of Rate Parameters.** The parameters

involved in rate expressions. The fundamental constraints on activation energies. Fundamental constraints on frequency factors. Frequency factors and activation energies in mechanisms. Fundamental constraints on heat of adsorption. Fundamental constraints on the entropy of adsorption. Experimental rate parameters in catalytic reactions. Understanding rate parameters. **Statistical Evaluation of Multiparameter Fits.** The parity plot. A list of suggested procedures for data fitting. **Experimental Studies Using TSR Methods.** Applications of temperature scanning reactors. The oxidation of carbon monoxide. Steam reforming of methanol. The hydrolysis of acetic anhydride. Variants on the methods of data interpretation. Experimental issues in TSR operation. **Using a Mechanistic Rate Expression.** A plan of action. Maximizing the conversion of carbon monoxide. Designing catalysts to improve performance. A view of the future of kinetic studies in catalyst development. **TSR Hardware Configurations.** The flow reactors. Differences between the TS-PFR and the TS-CSTR. The transient reactors.

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[www.elsevier.com/locate/isbn/0444513140](http://www.elsevier.com/locate/isbn/0444513140)

## Fundamentals of Molecular Catalysis

Edited by **H. Kurosawa**,  
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Suita, Osaka 5656-0871, Japan,*  
**A. Yamamoto**, *Advanced  
Research Institute for Science and  
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3-4-1 Ohkubo, Shinjuku, Tokyo  
169-8555, Japan*

©2002 536 pages  
ISBN 0-444-50921-6 Hardbound  
Publication: January 2003  
Price: EUR 220 / USD 220

Current Methods in Inorganic  
Chemistry, Volume 3

A distinct advantage of homogeneous catalysis over conventional heterogeneous catalysis is that it allows detailed clarification at the molecular level of the reaction mechanisms in the elementary processes which comprise catalytic cycles. Thus the term molecular catalysis aptly describes the characteristics of homogeneous catalysis. Understanding the basic concepts in catalysis will allow further applications of the concepts to develop transition metal catalysts supported on the solid surface. One can thus create catalyst systems where the catalytic processes can be understood at the molecular level while the benefit of heterogeneous systems in separation is maintained. Another effect of the progress in molecular catalysis can be found in green chemistry where development of atom-efficient synthesis through new synthetic routes can minimize waste.

Greener routes with less unfavourable impact on the environment may be provided by designing proper synthetic methodologies from the outset, based on the information of elementary processes in molecular catalysis. The aim is to provide the reader with detailed accounts of elementary processes to allow development of molecular catalysis and to aid in designing novel catalytic systems. The book comprises authoritative reviews on elementary processes from experts working at the forefront of organometallic chemistry.

**AUDIENCE**

Students and researchers working in the fields of organometallic chemistry, catalysis, organic synthesis, polymer synthesis, and materials science. Universities with chemistry departments and libraries; companies with chemistry related researchers; Government institutes conducting chemical research.

**Contents:** General Introduction (A. Yamamoto). Activation of Substrates with Nonpolar Single Bonds (R.H. Crabtree, D-H. Lee). Activation of Substrates with Polar Single Bonds (S. Komiyama, M. Hirano). Transition Metal-Carbene Complexes in Olefin Metathesis and Related Reactions (R.H. Grubbs). Transmetalation (K. Osakada). 1,2-Insertion and  $\beta$ -Elimination (P. Espinet, A.C. Albéniz). 1,1-Insertion into Metal-Carbon Bond (Y. Kayaki). Addition to Unsaturated Ligands (H. Kurosawa). Reductive Elimination (F. Ozawa).

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## Handbook of Thermal Analysis and Calorimetry

Edited by **P.K. Gallagher**,  
*Department of Chemistry, The Ohio State University, Columbus, OH, USA*

The applications and interest in thermal analysis and calorimetry have grown enormously during the last half of 20th century. The renaissance in these methods has been fueled by several influences, not least of which has been the revolution in instrumentation resulting from computer automation. Our ingenuity and vision have also expanded to recognize the tremendous versatility of these techniques. They have long been used to characterize materials, decompositions, and transitions. We now appreciate the fact that these techniques have greatly increased their utility in studying many processes such as catalysis, hazards evaluation, etc., or to measuring important physical properties quickly, conveniently, and with markedly improved accuracy. Consequently, thermal analysis and calorimetry have grown in stature and more scientists and engineers have become, at least part time, practitioners. It is very desirable that those who are new to the field can have a source of information describing the basic principles and current state of the art. Examples of the prevailing applications of these methods are also essential to spur recognition of the potential for future uses. The use of these methods is

highly interdisciplinary and any adequate description must encompass a range of topics well beyond the interests and capabilities of any single investigator. To this end, a convenient four-volume compendium of such information has been prepared by recognized experts in various aspects of the topic.

The editorial team has chosen authors with great care in an effort to produce a readable, informative handbook on this broad topic. The chapters are not intended to be a comprehensive review of the specific subject. The purpose is that they will enable the reader to glean the essence of the subject and form the basis for further critical reading or actual involvement in the topic. The goal of the editorial team is to spur the imagination to recognize the potential application of these methods to specific goals and efforts. In addition it is hoped to anticipate and answer questions, to guide the reader in the selection of appropriate techniques, and to help him perform them in a proper and meaningful manner.

### Volume 3

#### Applications to Polymers and Plastics

Edited By **S.Z.D. Cheng**,  
*University of Akron, Akron, Ohio, USA*

©2002 850 pages  
ISBN 0-444-51286-1 Hardbound  
Publication: December 2002  
Price: EUR 250 / USD 250

Handbook of Thermal Analysis and Calorimetry, Volume 3

As a new and exciting field of interdisciplinary macromolecular science and engineering, polymeric materials will have a profound presence in the 21st century chemical, pharmaceutical, biomedical, manufacturing, infrastructure, electronic, optical and information technologies. The origin of this field derived from an area of polymer science and engineering encompassing plastic technologies. The field is rapidly expanding to incorporate new interdisciplinary research areas such as biomaterials, macromolecular biology, novel macromolecular structures, environmental science and engineering, innovative and nano-fabrications of products, and is translating discoveries into technologies.

#### Contents: Selected Papers. Heat capacity of polymers

**(B. Wunderlich)**. Measurement of heat capacity. Thermodynamics theory. Quantum mechanical description. The heat capacity of solids. Complex heat capacity. The advanced thermal analysis system, ATHAS. Examples of the application of ATHAS. Temperature-modulated calorimetry. Concluding remarks.

#### The glass transition: its measurement and underlying physics

**(G.B. McKenna, S.L. Simon)**. Introduction. The apparent thermodynamic behaviour. Kinetics of glass formation. Microscopic theories related to the glass transition. Measurement of  $T_g$ . Physical ageing affects.

#### Mechanical relaxation processes in polymers

**(S. Matsuoka)**. What do we mean by the relaxation process.

Intermolecular cooperativity.  
Chemical structure and  $T_g$ .  
Viscoelasticity data analysis.  
Viscoelasticity data analysis near but above  $T_g$ .

**Dielectric analysis of polymers (P. Avakian *et al.*).** Introduction. Polar atmosphere polymers. Miscibility of polymer blends. Cold crystallization of amorphous polymers above  $T_g$ . Frequency-temperature relationships.

**Crystallization and melting of metastable crystalline polymers (S.Z.D. Cheng).** Introduction. Thermodynamic definitions of the phase and phase transitions. Polymer crystallization and morphology. Polymer crystal melting. Concluding remarks.

**Crystallization, melting and morphology of homogeneous ethylene copolymers (V.B.F. Mathot, H. Reynaers).** Introduction. Ethylene-propylene copolymers. Ethylene-1-butene copolymers. Ethylene-1-octene copolymers. Overview.

**Recent advances in thermal analysis of thermotropic mainchain liquid crystalline polymers (C.Y. Li).** Introduction. Liquid crystals and liquid crystalline polymers.

Thermodynamics transition behaviors. Enantiotropic and monotropic behaviors. Effects of mesogenic groups and spacers on the liquid crystalline orders and stability. Concluding remarks.

**Polymers blends and copolymers (J. Runt, J. Huang).** Introduction. Background. Polymer blends.

**Thermosets (A. Hale). Thermal analysis of polymer films (L. Zhu).** Introduction. General concepts. Chemistry and applications of thermosetting

polymers. Determination of extent of cure. Glass transition temperature. Dependence of  $T_g$  on network and chemical structure. Reaction kinetics. Photo-initiated polymerization. Modulated temperature DSC. Concluding remarks.

**Thermal analysis of polymer films (L. Zhu).** Introduction. General experimental considerations in thermal analysis of polymer films. Thermal analyses of specific polymer films. Concluding remarks.

**Thermal analysis polymer fibers (A.J. Jing *et al.*).** Introduction. Fiber structure and its determination. Thermal analysis of fiber. Conventional fibers and their modifications. High performance fibers. Concluding remarks.

**Thermal properties of high temperature polymer matrix fibrous composites (R.J. Morgan *et al.*).** Introduction. Results and discussion. Concluding remarks.

**Thermal analysis and calorimetry of elastomers (D.J. Burlett, M.B. Altman).** Introduction. Classes of elastomer. Single elastomer. Blends. Additives. Curing. Quality control. Future opportunities.

**Polymer degradation (J.H. Flynn).** Introduction. General thermo-oxidative mechanisms. General hydrolysis mechanisms. Lifetime prediction of polymers by thermal analysis. Some specific examples of degradation.

Copolymers, blends and mixtures. Concluding remarks. Bibliography.

**Thermally stimulated currents: recent developments in characterization and analysis of polymers (B.B. Sauer).** Introduction. Experimental section. Analysis of TSC-TS data.

Interpretation of global TSC results. Interpretation of TSC-thermal sampling(TSC-TS) results. TSC applications. Concluding remarks.  
**Temperature modulated differential scanning calorimetry (TMDSC)- basics and applications to polymers (C. Schick).** Introduction. Differential scanning calorimetry (DSC)- basic considerations. Applications. Concluding remarks.

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## Integrated Analytical Systems

Edited by **S. Alegret**, *Department of Chemistry, Autonomous University of Barcelona, 08193 Bellaterra, Catalonia, Spain*

©2003 568 pages  
ISBN 0-444-51037-0 Hardbound  
Publication: April 2003  
Price: EUR 245 / USD 245

Comprehensive Analytical Chemistry, Volume XXXIX

This book summarizes the main integration strategies currently found in analytical instrumentation or laboratories, giving a wide and updated panorama of analytical chemistry. The objective of this book is to highlight the different integration solutions, currently used in analytical chemistry, by treating them in groups of one or several chapters. The book is aimed at graduate students and researchers in industry and academy to help them acquire a



critical vision of some of the current tendencies in analytical chemistry. It is written by an international team of researchers active within the fields covered in the book.

The authors come from a wide diversity of technological and scientific fields including: chemistry; electrochemistry; physics; materials science; microelectronics; electronic engineering; and the instrumentation industry, thus highlighting the multidisciplinary nature of analytical chemistry in today's world.

#### **AUDIENCE**

All those involved in analytical chemistry.

**Contents:** Integration, a New Paradigm in Analytical Chemistry (S. Alegret).

**Systems.** Integrated Separation Systems (D.N. Muraviev). Solid-phase Spectrometric Assays (L. F. Capitán-Vallvey, M.D. Fernández Ramos). Continuous Flow Analytical Systems (M.D. Luque de Castro, J. L. Luque-García). Distributed Analytical Instrumentation Systems (D. Ramirez *et al.*). Laboratory Information Management Systems (R.D. McDowall).

**Sensor Systems.** Chemically Modified Electrodes with Integrated Biomolecules and Molecular Wires (E.J. Calvo *et al.*). Composite and Biocomposite Materials for Electrochemical Sensing (S. Alegret, A. Merkoçi). Optical Sensors and Biosensors (F. Sevilla, R. Narayanaswamy).

**Array Systems.** Electronic Tongues: New Analytical Prospective of Chemical Sensors

(A. Legin *et al.*). A Taste Sensor (K. Toko). Application of Electronic Nose Technology for Monitoring Water and Wastewater (R. Stuetz).

**Microsystems.** Integrated Optical Transducer for Chemical and Biological Sensing (C. Domínguez *et al.*). "High Order" Hybrid FET Module for (Bio-)Chemical and Physical Sensing (A. Poghosian, M.J. Schöning). Microdialysis Based Lab-on-a-Chip, Applying a Generic MEMS Technology (P. Bergveld *et al.*). Design Methodology for a Lab-on-a-Chip for Chemical Analysis Resulting in the MAFIAS Chip (T.T. Veenstra, A. van den Berg).

**Nanosystems.** Nanosensor and Nanoprobe Systems for In Vivo Bioanalysis (T. Vo-Dinh).

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NFP 384/7



# Earth and Planetary Sciences

## Godunov-type Schemes

### An Introduction for Engineers

By **V. Guinot**, *Université Montpellier 2, Maison des Sciences de l'Eau, Montpellier Cedex, France*

©2003 508 pages  
**ISBN 0-444-51155-5 Hardbound**  
**Publication: January 2003**  
**Price: EUR 130 / USD 130**

Godunov-type schemes appear as good candidates for the next generation of commercial modelling software packages, the capability of which to handle discontinuous solution will be a basic requirement. It is in the interest of practising engineers and developers to be familiar with the specific features of discontinuous wave propagation problems and to be aware of the possibilities offered by Godunov-type schemes for their solution.

This book aims to present the principles of such schemes in a way that is easily understandable to practising engineers. The features of hyperbolic conservation laws and their solutions are presented in the first two chapters. The principles of Godunov-type schemes are outlined in a third chapter. Chapters 4 and 5 cover the

application of the original Godunov scheme to scalar laws and to hyperbolic systems of conservation laws respectively. Chapter 6 is devoted to higher-order schemes in one dimension of space. The design of such a scheme is described for the general case and applied to some well-known schemes such as the MUSCL and PPM schemes. Chapter 7 focuses on multidimensional problems. The classical alternate directions and finite volume approaches are presented together with the wave splitting technique that is described in depth with an application to two-dimensional systems. Chapter 8 deals with large-time step algorithms. These include front tracking-based methods, explicit-implicit techniques and the time-line interpolation technique. Three appendices provide notions on accuracy and stability issues, Riemann solvers and the user instructions for the computational codes provided in the enclosed CD-ROM.

#### Contents: Preface.

Acknowledgements. Notation.

1. Scalar conservation laws.
2. Hyperbolic systems of conservation laws.
3. An outline of Godunov-type schemes.
4. The Godunov method for scalar laws in one dimension.
5. The Godunov method for systems of conservation laws.
6. Higher-order schemes.
7. Multidimensional schemes.
8. Large-time-step

algorithms. 9. Concluding remarks. Appendix A. Notions in mathematics. Appendix B. Riemann solvers. Appendix C. Sample codes. References. Index.

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## Seismic Amplitude Inversion in Reflection Tomography

By **Y. Wang**, *Robertson Research International, Swanley, Kent, UK*

©2003 270 pages  
**ISBN 0-08-044243-9 Hardbound**  
**Publication: January 2003**  
**Price: EUR 105 / USD 105**

Handbook of Geophysical Exploration: Seismic Exploration, Volume 33

This is the first book of its kind on seismic amplitude inversion in the context of reflection tomography. The aim of the monograph is to advocate the use of ray-amplitude data, separately or jointly with traveltimes data, in reflection seismic tomography. The emphasis of seismic exploration is on imaging techniques, so that seismic section can be interpreted directly as a geological section. In contrast it is perhaps ironic that, in decades of industrial



seismology, one major aspect of waveform data that potentially is easier to measure and analyse has generally been ignored. That is, the information content of seismic amplitudes. Perhaps the potential complexity has deterred most researchers from a more thorough investigation of the practical use of seismic amplitude data. The author of this volume presents an authoritative and detailed study of amplitude data, as used in conjunction with traveltimes data, to provide better constraints on the variation of seismic wave speed in the subsurface.

One of the fundamental problems in conventional reflection seismic tomography using only traveltimes data is the possible ambiguity between the velocity variation and the reflector depth. The inclusion of amplitude data in the inversion may help to resolve this problem because the amplitudes and traveltimes are sensitive to different features of the subsurface model, and thereby provide more accurate information about the subsurface structure and the velocity distribution. An essential goal of this monograph is to make the amplitude inversion method work with real reflection seismic data.

**Contents:** Preface. Introduction (Professor G.A. Houseman).

**1. Introduction to amplitude inversion.** Introduction. Velocity-depth ambiguity in traveltimes inversion. Resolving ambiguity by using amplitude information. Overview of amplitude inversion. Analytical expression for the geometrical spreading function for layered structures. **2. Traveltimes and ray-amplitude in heterogeneous media.** Introduction. Bending ray tracing method. Traveltimes and its

perturbations. Propagator of paraxial rays and geometrical spreading. Ray perturbations due to model perturbations. Ray amplitude. **3. Amplitude coefficients and approximations.**

Introduction. The Zoeppritz equations. The pseudo- $p^2$  expressions. Quadratic expressions in terms of elastic contrasts. Accuracy of the quadratic approximations. Amplitude coefficients represented as a function of three elastic parameters. Three elastic parameters from amplitude inversion. Implication for fluid substitution modelling.

**4. Amplitude inversion for interface geometry.** Introduction. Parameterization and forward modelling. Subspace gradient inversion method. A simple example of reflection amplitude inversion. Inversion for an interface represented as a sum of harmonic functions. Stability of the amplitude inversion. Strategy for the choice of  $\Delta k$  and  $M$ . Discussion. **5. Amplitude inversion for velocity variation.**

Introduction. Amplitude dependence on slowness perturbation. Inversion algorithm. Inversion example of 1-D slowness distribution. Constraining higher wavenumber components. Robustness of the inversion in the presence of model error or data noise. Inversion of arbitrary smooth velocity anomalies. Discussion. **6. Sensitivities of traveltimes and amplitudes in joint inversion.** Introduction. The Hessian and the norm in model space. Sensitivities to interface geometry. Sensitivities to 2-D slowness variation. Inversion formula. Joint inversion for an interface. Joint inversion for slowness. Discussion.

**7. Amplitude inversion of a multi-layered structure.**

Introduction. Forward calculation and inverse method. Preliminary inversion test. Damped subspace method. Multi-scale scheme. Multi-stage damped subspace method. **8. Practical approach to application.** Introduction.

Amplitudes estimated from migrated gathers. Demigration of reflection amplitudes. Winothing amplitudes by LOESS. Inversion procedure. Inversion results.

**9. Simultaneous inversion for model geometry and elastic parameters.** Introduction.

Ray-amplitude and its approximation. Inversion method. Inversion example. Measurements for lithological interpretation. Structural effects on amplitude variation. **10. Decomposition of structural effect and AVO attributes.** Introduction.

Decomposition of ray-amplitude. The inverse problem. Sample dataset of gas-water contact. Inversion results. The Chebyshev spectra of the AVO attributes.

**11. Amplitude tomography in practice.** Introduction. Estimate of amplitudes, traveltimes and data uncertainties. Tomographic inversion incorporating more information and using an improved forward calculation. Consideration of factors influencing amplitudes. Turning-ray tomography for near-surface velocity structure and attenuation. Prestack seismic trace inversion for ray elastic impedance. **Appendices.**

Derivation of the geometrical spreading function. Derivation of reflection amplitude demigration. References. Author Index. Topic Index.

**PERGAMON**

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# Economics, Business and Management

## Advances in Management Accounting, Volume 11

Edited by **J.Y. Lee**, *Lubin School of Business, Pace University, Pleasantville, New York, NY 10570, USA*

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©2003 280 pages  
ISBN 0-7623-1012-X Hardbound  
Publication: May 2003  
Price: USD 90 / EUR 90

Advances in Management Accounting, Volume 11

*Advances in Management Accounting (AIMA)* publishes well-developed articles on a variety of current topics in management accounting that are relevant to both practitioners and academicians. As a respected professional journal, *AIMA* is well poised to meet their information needs. Featured in Volume 11 are articles on manager's perceptions of the physical reality of the firm's utilization of its physical assets, the perspectives used in analytical and empirical cost system research, operational planning and

control involving activity-based costing, effects of benchmarking and incentives on organizational performance, organizational control and work team empowerment, budget slack creation in organizations, taxonomy for the mass customization approach, top management involvement in R&D budget setting, role of self-interest in project continuation decisions, agency theory determinants of managers' adverse selection in resource allocation, process innovation and adaptive institutional change strategies in management control systems, and change in management accounting controls after implementation of electronic data interchange. Accountants at all levels who work in corporations and not-for-profit organizations would be interested in the *AIMA* articles.

**Contents:** List of contributors. Editorial board. *AIMA* Statement of Purpose. Editorial policy and manuscript form guidelines. Introduction (M.J. Epstein, J.Y. Lee). Shifting perspectives: accounting, visibility, and management action (C.J. McNair *et al.*). Cost system research perspectives (J.Y. Lee). Operational planning and control with an activity-based costing system (R.C. Kee). The effects of benchmarking and incentives on organizational performance: a test

of two-way interaction (A.S. Maiga, F.A. Jacobs). Organizational control and work team empowerment: an empirical analysis (Khim Ling Sim, J.A. Carey). Effects of uncertainty, participation, and control system monitoring on the propensity to create budget slack and actual budget slack created (L. Kren). A management accounting taxonomy for the mass customization approach (M.E. Bayou, A. Reinstein). Top management involvement in R&D budget setting: the importance of financial factors, budget targets, and R&D performance evaluation (A.S. Dunk, A. Kilgore). A cross-national test of the role of self-interest on project continuation decisions (P.D. Harrison, K. Haddad). Manager's adverse selection in resource allocation: a laboratory experiment (M. Goedono, H. Sami). Process innovation and adaptive institutional change strategies in management control systems: activity based costing as administrative innovation (S. Sisaye). EDI adoption: controls in a changing environment (T. Glandon).

**JAI**

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## Inequality, Welfare and Poverty: Theory and Measurement

By **J.A. Bishop**, *Department of Economics, East Carolina University, Greenville, NC 27858, USA*, **Y. Amiel**, *Ruppin Institute, Emek Hefer 40250, Israel*

©2003 437 pages  
**ISBN 0-7623-1014-6 Hardbound**  
**Publication: January 2003**  
**Price: EUR 95 / USD 95**

Research on Economic Inequality, Volume 9

*Research on Economic Inequality, Volume 9, Inequality, Welfare and Poverty: Theory and Measurement* continues the series of original, timely and useful papers in applied welfare analysis. This volume contains fifteen papers on inequality theory, economic mobility, issues in empirical estimation, and empirical studies. The theory papers address the link between inequality and social welfare. The mobility papers address issues of unequal growth and intergenerational mobility. The estimation papers address data weighting and equivalent scale issues. The final section presents empirical papers on poverty and inequality for a variety of countries.

**Contents:** 1. The measurement of the inequality of opportunities (J. Ruiz-Castillo).  
 2. Inequity, welfare and monotonicity (Y. Amiel, F.A. Cowell).  
 3. Inequality measurement for

homogeneous group (U. Ebert).  
 4. Extended Bi-polarization and inequality measures (J.G. Rodriguez, R. Salas).  
 5. International comparison of income distributions (S. Bazen, P. Moyes).  
 6. Mobility comparisons: Does using different measures matter? (D. Checchi, V. Dardanoni).  
 7. Economic growth, welfare and the measurement of social mobility (J.P. Formby, *et al.*).  
 8. Estimating welfare indices: household weights and sample design (F.A. Cowell, S.P. Jenkins).  
 9. Weighting with individuals, equivalent individuals or not weighting at all. Does it matter empirically? (A. Decoster, E. Ooghe).  
 10. Personal assessments of minimum income and expenses: What do they tell us about 'Minimum Living' Thresholds and Equivalence scales? (T.I. Garner, K.S. Short).  
 11. A generalized social welfare function and its disaggregation by components of income: The method and application (P. Mukhopadhyaya).  
 12. Equity, efficiency and social welfare: An application of generalized Lorenz dominance to New Zealand incomes data 1984-98 (S. Chatterjee, *et al.*).  
 13. U.S income inequality trends and recent immigration (R.I. Lerman).  
 14. Urban poverty in developed countries (A. Brandolini, P. Cipollone).  
 15. Regional poverty within the rich countries (D. Jesuit, *et al.*).

**JAI**  
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## Research in the History of Economic Thought and Methodology, Volume 21

Edited by: **W.J. Samuels**, *Michigan, State University, East Lansing, MI 48824, USA*,  
**J.E. Biddle**, *Michigan, State University, East Lansing, MI 48824, USA*

### Research Annual

©2003 390 pages  
**ISBN 0-7623-0996-2 Hardbound**  
**Publication: January 2003**  
**Price: EUR 105 / USD 105**

Research in the History of Economic Thought and Methodology, Volume 21A

The collection includes refereed articles on a variety of subjects in the history of economic thought: Adam Smith, J.M. Clark and F.H. Knight, F.H. Knight and M.A. Copeland, S. Bulgakov, and interwar monetary and business cycle theory. Review essays on new publications cover such areas as methodology, Veblen, economics and religion, Hayek, economic philosophy and ideology, J.S. Mill, and evolution theory.

**Contents:** An inquiry into the nature and causes of the wealth of nations, Book I: Its relationship to Adam Smith's full moral philosophical vision (J. Evensky). John Maurice Clark and Frank H. Knight on marginal productivity theory: A note with some unpublished correspondence (L. Fiorito).

Waging war against mechanical man: The knight-copeland controversy over behaviorism in economics (P.F. Asso, L. Fiorito). In whose image? Sergius Bulgakov's accounting of the history of economics (Y. Tulupenko). Interwar monetary and business cycle theory: Macroeconomics before Keynes (R.W. Dimand). **Review Essays.** Multiple reviews of Hand's reflection without rules (D.K. Barker *et al.*). Multiple reviews of Nelson's economics as religion: From Samuelson to Chicago and beyond (M.W. Reeder, R. Emmett). Multiple reviews of Edgell's Veblen in perspective: His life and thought (E.S. Miller, W. Waller). Cartwright's the dappled world: A study of the boundaries of science (K.D. Hoover). Sciabarra's total freedom: Toward a dialectical libertarianism (P.R. Diesing). Whatmore's republicanism and the french revolution: An intellectual history of Jean-Baptiste say's political economy (W. Henderson). Long's divine economy: Theology and the market (D.R. Finn). Skousen's the making of modern economics (S. Bober). Mayumi's the origins of ecological economics (M. Perelman). Reich, national accounts and economic value: A study in concepts (S.P. Hargeaves Heap). Ebenstien's Friedrich Hayek: A biography (D.E. Moggridge). Dugger and Sherman's reclaiming evolution (G.M. Hodgson). Aune's selling the free market: The rhetoric of economic correctness (S.T. Ziliak). Hamburger's John Stuart Mill on liberty and control and O'Rourke's John Stuart Mill and freedom of expression: The genesis of a

theory (S. Pressman). Ofek's second nature: Economic origins of human evolution (G.M. Hodgson). Micocci's Anti-Hegelian reading of economic theory (P. Diesing). Houck's rhetoric as currency: Hoover, Roosevelt, and the great depression (W.J. Barber). New books recieved.

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**Contents:** An 1880 list of references in economics (W.J. Samuels). Charles Henry Hull's syllabus of lectures on the history of economic theories, Cornell university, 1895 (W.J. Samuels). Walton H. Hamilton's outlines for the principles of economics, University of Michigan, 1911 (W.J. Samuels).

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Victor E. Smith's notes on William Jaffe's seminars on Keynes, spring 1939 (W.J. Samuels).

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## Environmental Sciences

### Ozone Air Pollution in the Sierra Nevada - Distribution and Effects on Forests

Edited by **A. Bytnerowicz, M.J. Arbaugh, R. Alonso**, *USDA Forest Service, Pacific Southwest Research Station, Riverside, CA, USA*

©2003 388 pages  
ISBN 0-08-044193-9 Hardbound  
Publication: May 2003  
Price: EUR 130 / USD 130

Developments in Environmental Science, Volume 2

The book contains information on geology, climate and vegetation of the Sierra Nevada with a special emphasis on air pollution effects on the mixed conifer forests.

A history of the extent of air pollution effects on mixed conifer forests, especially ponderosa and Jeffrey pines is provided. The physiological basis for ozone-type injury development in ponderosa pine, a discussion of ozone uptake by plants at different levels of biological organization and the effects of air pollution and other stresses on mountain forests are discussed. A considerable portion of the book is dedicated to development of statistical models and maps of ambient ozone distribution in the Sierra Nevada

based on the 1999 monitoring data with passive samplers. The implications of the methodological results, formulation and application of regional air quality models for integrated assessment of urban and wildland pollution and the need for functionally integrated models of ozone deposition to the Sierra Nevada forests are also discussed. Management and monitoring needs for improved long-term understanding air pollution effects on forest ecosystems, discussion of options for proper management of the air pollution affected forests, and comparison of monitoring and modelling of ozone and forest health status in the Sierra Nevada with similar efforts in mountains of North American and European mountain ranges are the focus of the later chapters of the book.

#### Contents: Preface

(A. Bytnerowicz, M.J. Arbaugh, R. Alonso).

#### Section I: Ozone and its effects on Sierra Nevada ecosystems.

1. Geology, climate and vegetation of the Sierra Nevada and the mixed-conifer zone: An introduction to the ecosystem (R.A. Minnich, P.E. Padgett).  
2. Historical perspectives on ambient ozone and its effects on the Sierra Nevada (J.J. Carroll, P.R. Miller, J. Pronos).  
3. The physiological basis of ozone injury assessment attributes in Sierran conifers (N.E. Grulke).  
4. Ozone uptake by ponderosa pine in the

Sierra Nevada - A measurement perspective (A.H. Goldstein, M.R. Kurpius, J.A. Panek).  
5. Effects of ozone, nitrogen deposition, and other stressors on montane ecosystems in the Sierra Nevada (M.E. Fenn, M.A. Poth *et al.*).

#### Section II: Analysis of spatial patterns of urban transported ozone in the Sierra Nevada.

6. Introduction to a regional passive ozone sampler network in the Sierra Nevada (M.J. Arbaugh, A. Bytnerowicz).  
7. Use of auxiliary data for spatial interpolation of surface ozone patterns (E.H. Lee).  
8. Use of nonparametric local regression to estimate surface ozone patterns over space and time (H.K. Preisler, S. Schilling).  
9. Use of geostatistics to estimate surface ozone patterns (W. Fraczek, A. Bytnerowicz, M.J. Arbaugh).  
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#### Section III: Research and development needs for the Sierra Nevada.

11. Methodological needs and perspectives for monitoring ambient air pollution and regional haze: Tools for understanding forest responses (A. Bytnerowicz, P.E. Padgett, M.J. Arbaugh).  
12. Towards an air pollution effects monitoring system for the Sierra Nevada (E. Plymale, M.J. Arbaugh *et al.*).  
13. Formulation and application of regional air quality modeling for



integrated assessments of urban and wildland pollution (G. Tonnesen, Z. Wang *et al.*).

14. The need for spatially and functionally integrated models of ozone deposition to Sierra Nevada forests (J.A. Panek, D.D. Baldocchi, A.H. Goldstein).

15. Managing air pollution affected forests in the Sierra Nevada (T. Procter, S. Ahuja, F.M. McCorrison).

**Section IV: International perspective of the Sierra Nevada research.** 16. Monitoring and modeling of ozone status and effects in the Sierra Nevada: A comparison with studies in North America and Europe (R. Alonso, A. Bytnerowicz).

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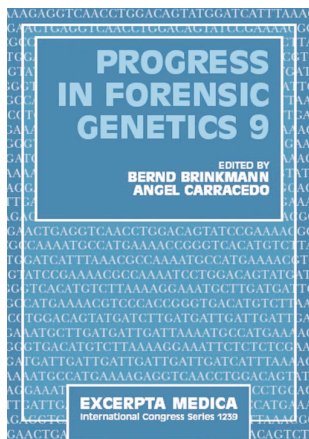
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# Medicine

## Progress in Forensic Genetics 9



*Proceedings of the 19th International ISFG Congress, Münster, 28 August - 1 September 2001*

Edited by **B. Brinkman**, *Institut für Rechtsmedizin, Münster, Germany*,  
**A. Carracedo**, *Facultad de Medicina, Universidad de Santiago de Compostela, Santiago de Compostela, Spain*

©2003 976 pages  
ISBN 0-444-50717-5 Hardbound  
Publication: January 2003  
Price: EUR 230 / USD 230

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This is the third volume in the series of books entitled "Progress

in Forensic Genetics" and contains the oral and poster presentations given at the 19th congress of the newly renamed ISFG International Society for Forensic Genetics (formerly ISFH International Society for Forensic Haemogenetics). The congress took place in Munster, Germany from 28th August to 1st September 2001 at the Halle Munsterland.

All manuscripts presented in this volume have also been through a reviewing procedure in order to maintain the high quality of the series.

It is hoped that all attendees and also those who were not able to attend will be able to profit from the high level of scientific information contained in this book and that this will stimulate the readership to innovative research in this rapidly changing field of forensic genetics.

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Population data for nine STR loci FGA, vWA, D3S1358, CSF1PO, TPOX, TH01, D7S820, D13S317 and D5S818 in Japanese (M. Hara *et al.*). Portuguese population data on two pentanucleotide STR loci: penta E and penta D (T. Ribeiro *et al.*). Data analysis of 10 STR loci in a population in the province of Neuquen, Argentina (U. Toscanini *et al.*). Population data from Chile using Powerplex-16 (R. Celis *et al.*). Spanish population data for the 15 STRs Loci included in Powerplex-16 (C. Entrala *et al.*). Kurdish population data for the STR loci ACTBP2, CSF1PO, FGA, TH01, TPOX, VWA, D3S1358, D5S818, D7S820, D13S317 and D21S11 (I. Shimada *et al.*). Allele frequency distributions and other population genetic parameters for 13 STR loci in a UAE local population from Dubai (F.H. Alshamali *et al.*). Population genetic study of 15 STRs loci using AmpFISTR identifier kit (A. Barbaro *et al.*). Frequency data for 15 STR loci and forensic use in a Beijing-Han population (Y. Liu *et al.*). Population genetic data for 8 STR loci in the South of Africa (O. Stefano *et al.*).

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Comparison of two isolated "Hungarian", population to population of Budapest (mixed Hungarian) by Y-chromosomes (Z. Beer *et al.*). A nomenclature for YCA II which is compatible with the ISFG guidelines for Y-STR analysis (U. Schmidt, S. Lutz, L. Roewer). Y-STR typing in forensic analysis (N. von Wurmb-Schwark, S. Petermann, R. Wegener). Phylogeny of the mtDNA haplogroup U6. Analysis of the sequences observed in North Africa and Iberia (L. Pereira *et al.*). A novel mt-DNA coding and D-loop analysis for forensic identification based on pyro-sequencing (M. Allen, H. Andréasson, U. Gyllensten). Genetic structure of autochthonous Basques through analysis of the HVI and HVII regions of mitochondrial DNA (C. Martínez-Bouzas *et al.*). Mitochondrial DNA polymorphism in 50 unrelated individuals from North-Italy (L. Caenazzo *et al.*). D-Loop-BASE online now - a central European database of mitochondrial DNA (H. Wittig *et al.*). Sequencing of Mitochondrial HV1 and HV2 DNA with length heteroplasmy (E.M. Rasmussen *et al.*). Analysis of mitochondrial DNA with an infrared automated DNA sequencer in a Tuscan population (Central Italy) (L. Giunti *et al.*). MtDNA control region polymorphism: sequence database and forensic applications (A. Rodríguez-Monge *et al.*). Population data of mitochondrial DNA region HVIII in 150 individuals from Bologna (Italy) (C. Bini *et al.*). Polymorphism of D-loop mitochondrial DNA: study of HV1 and HV2 regions in unrelated individuals living in the East of France (V. Troesch *et al.*).

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**Session 4. Physical traits, mutations/chimerism.** Investigation of chimerism in a healthy, adult female by means of minisatellite and microsatellite typing (B. Glock *et al.*). Mutations and Aneuploidies: their prevalence and impact on forensic casework (T.M. Clayton *et al.*). Mutation rates at twenty-three different short tandem repeat loci (E. M. Dauber *et al.*). STR-typing in a pair of chimeric twins (E.M. Dauber *et al.*). Identification of a phenotypically normal tetragametic chimeric fertile woman by HLA and STR typing (J.J. Yunis *et al.*).

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Estonia with dog's DNA data admitted as evidence (A. Aaspõllu, M. Kelve). Appearance of allelic drop-out in STR-multiplex amplified samples after capillary electrophoresis can (Th. Lederer *et al.*). Discrimination of monozygotic twins (and clones) on the DNA level (D. Schlieper, A. Ehlich, M. Benecke). Incestuous offspring detection inference by VNTR homozygosity increment (D. Corach *et al.*). Development of two new multiplex systems (M1: D3S1358, D8S1179, D7S820, D16S539, Penta E and M2: D5S818, D13S317, D10S516, Penta D) for routine and forensic casework (C. Proff, C. Schmitt, M. Staak). Identification of a carbonized body found inside a car (A. Barbaro, P. Barbaro, A. Barbaro). Are DNA tests infallible? (G. Penacino, A. Sala, D. Corach). Determination of the blood volume of blood stains on clothes: a case report (A. Pifarré *et al.*). DNA typing from biological stains: a casework experience (N. Cerri *et al.*). DNA typing from epiglottic cartilage of exhumed bodies (S. Gino *et al.*). Paternity determination in criminal cases by DNA typing in South Ukraine (Yu.M. Sivolap, A.F. Brik, G.F. Krivda). Further study on suitability of profiler plus in personal identification (L. Buscemi *et al.*). The rapid identification of railway disaster victims by DNA analysis (P. Hoff-Olsen, B. Mevåg, K. Ormstad). Importance of canine identification in the Hungarian forensic practice (Z. Pádár *et al.*). Validation and practical experiences with the multiplex kits genRESR MPX-2 (SERAC) and GeneprintR PowerPlex™ 16 (Promega) (A. Junge, M. Steevens, B. Madea). CYT-B



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# Neuroscience

## Handbook of Neuropsychology, 2nd Edition

Edited by **F. Boller**, *INSERM, Unite 324, Centre Paul Broca, 75014, Paris, France*, **J. Grafman**, *National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, MD 20892, USA*

The second edition of the Handbook of Neuropsychology is designed to address the extraordinary growth and changes taking place in this field in recent years. There are important changes between the first edition and the present one in terms of organization, content, timing, presentation, and availability. Several volumes have been concurrently planned and the entire series will appear over a span of approximately two years.

### AUDIENCE

The Handbook is an essential reference source for clinicians such as neuropsychologists, neurologists, psychiatrists, geriatricians and psychologists, as well as for all neuroscientists.

*"...These books would be an excellent addition to any neuropsychology program's reference library. They certainly capture the current ideas about brain function and their relations to behavior."*

### Psychological Reports

## Volume 8

### Clinical Neuropsychology

Edited by **S.J. Segalowitz**, *Department of Psychology, Brock University, St. Catharines, ON L2S 3A1 Canada*, **I. Rapin**, *Department of Neurology, Albert Einstein College of Medicine, K-807, Bronx, NY 10461, USA*

Handbook of Neuropsychology, 2nd Edition, Volume 8

Volume 8 consists of Parts I and II, edited by Sid Segalowitz and Isabelle Rapin. They rest on the fact that the impact of acquired and degenerative disorders in childhood is strongly colored by the immaturity of the brain, so that what is said in other volumes of the Handbook rarely applies directly to children.

Part I considers theoretical perspectives in bridging developmental neuroscience with child psychology, with the role of neuroscience furthering our understanding of the child's mental development, and a separate chapter outlines the importance of plasticity in this growth. Chapters also cover methodological issues arising from epidemiological perspectives and from psychometric concepts and issues. Methods for measuring biological brain function and structure and their particular application to child neuropsychological disorders are covered next, including ERP, PET,

SPECT, MRI and fMRI technologies. Included is a chapter devoted to childhood seizure disorders. Separate chapters follow on neuropsychological assessment in infancy, in the preschool child, and in school-aged children. Following this are presentations on the development of motor control, including handedness, and somatosensory perception. Part II begins with chapters on visual development and on development in visually impaired children, followed by chapters on cognitive development in deaf children and on central auditory functions and their evaluation. This is followed by chapters on early language development and its neural correlates, developmental language disorders, and on acquired aphasia in childhood. Two chapters on dyslexia and another on dyscalculia follow. Next is a chapter on disorders of memory with a special focus on temporal lobe disease and autism, one on attention disorders, and one on executive functions in normal and abnormal development. Following this are chapters on the development of emotional regulation and on mechanisms and influences on addiction in children and adolescents. Final chapters include one on eating disorders, and another focussing on autism spectrum disorders.



**Part I**

©2002 426 pages  
**ISBN 0-444-50364-1 Hardbound**  
**Publication: December 2002**  
**Price: EUR 175 / USD 175**  
**ISBN 0-444-50373-0 Paperback**  
**Publication: December 2002**  
**Price: EUR 75 / USD 75**

Part I considers theoretical perspectives in bridging developmental neuroscience with child psychology, with the role of neuroscience furthering our understanding of the child's mental development, and a separate chapter outlines the importance of plasticity in this growth. Chapters also cover methodological issues arising from epidemiological perspectives and from psychometric concepts and issues. Methods for measuring biological brain function and structure and their particular application to child neuropsychological disorders are covered next, including ERP, PET, SPECT, MRI and fMRI technologies. Included is a chapter devoted to childhood seizure disorders. Separate chapters follow on neuropsychological assessment in infancy, in the preschool child, and in school-aged children. Following this are presentations on the development of motor control, including handedness, and somatosensory perception.

**Contents:** Preface. List of Contributors. 1. On the nature and scope of child neuropsychology (I. Rapin, S.J. Segalowitz). 2. The neuropsychology of normal development: developmental neuroscience and a new constructivism (S.J. Segalowitz, M. Hiscock).

3. Plasticity: mechanisms, extent and limits (R. Nass).
  4. Epidemiologic perspectives on neuropsychological disorders in children (D.C. Bellinger, L.A. Rappaport *et al.*).
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  9. Conceptual and psychometric issues in the neuropsychologic assessment of children: measurement of ability discrepancy and change (R.D. Morris, J.M. Fletcher, D.J. Francis).
  10. Neuropsychological assessment in infancy (V. Molfese, B. Price).
  11. Neuropsychological assessment of the preschool child (A.G. O'Shea, B. Harel, D. Fein).
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  15. Motor soft signs and development (R.K. Deuel).
  16. Somatosensory perception in children (J.E. Casey, B.P. Rourke).
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**Part II**

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**ISBN 0-444-50955-0 Hardbound**  
**Publication: February 2003**  
**Price: EUR 175 / USD 175**  
**ISBN 0-444-50956-9 Paperback**  
**Publication: February 2003**  
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Part II begins with chapters on visual development and on development in visually impaired children, followed by chapters on cognitive development in deaf children and on central auditory functions and their evaluation. This is followed by chapters on early language development and its neural correlates, developmental language disorders, and on acquired aphasia in childhood. Two chapters on dyslexia and another on dyscalculia follow. Next is a chapter on disorders of memory with a special focus on temporal lobe disease and autism, one on attention disorders, and one on executive functions in normal and abnormal development. Following this are chapters on the development of emotional regulation and on mechanisms and influences on addiction in children and adolescents. Final chapters include one on eating disorders, and another focussing on autism spectrum disorders.

**Contents:** Preface. List of Contributors. 17. Toward a neuropsychology of visual development (R.O. Gilmore). 18. Cognitive development in children with visual impairments (D.H. Warren, D.D. Hatton). 19. Central auditory function and evaluation of auditory processing disorders (L.J. Hood, C.I. Berlin).



20. Cognitive development in deaf children: the interface of language and perception in neuropsychology (R.I. Mayberry).  
21. Early language development and its neural correlates (E. Bates, D. Thal *et al.*).  
22. Developmental language disorders (I. Rapin, M. Dunn, D.A. Allen). 23. Acquired aphasia in childhood (A. Van Hout).  
24. The neuropsychology of dyslexia (S.E. Shaywitz, B.A. Shaywitz *et al.*).  
25. Neuropsychological perspectives on reading development and developmental reading disorders (M.W. Lovett, R.W. Barron).  
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27. Disorders of memory in childhood with a focus on temporal lobe disease and autism (G.R. DeLong).  
28. Neuropsychology of attention disorders (R. Tannock).  
29. Executive functioning in normal and abnormal development (L. Bennetto, B.F. Pennington).  
30. A frontal activation model of emotion regulation: developmental implications (L.A. Schmidt, S.R. Waldstein, D.L. Santesso).  
31. Neurobiological and developmental influences on the addiction to psychotropic drugs (K. Erickson, K. Habib, J. Schulkin). 32. Eating disorders (A. Walker). 33. Autism spectrum disorders (N.J. Minshew, J.A. Meyer, M. Dunn). Subject Index.

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## Social and Behavioural Sciences

### Advances in Library Administration and Organization, Volume 20

Edited by **D.E. Williams**, *Bierce Library 161, The University of Akron, OH 44325-1701, USA*  
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©2003 256 pages  
**ISBN 0-7623-1010-3 Hardbound**  
**Publication: May 2003**  
**Price: USD 90 / EUR 90**

Advances in Library Administration and Organization, Volume 20

Long regarded as the premier monographic series in its area of coverage, *Advances in Library Administration and Organization* offers research perspectives that are both timely and lively. Through its long-standing tradition of bringing to its professional and academic readership a mix of scholarship and longish essays, volumes continue to be characterized by a focused eclecticism whose contributions, informed by theory and reflection, stretch the boundaries of practice. Volume 20 includes important contributions to the field dealing with the evolving role of the chief information officer, information

ethics, library services at a distance, e-metrics, and continuous quality improvement. Authors represent national backgrounds from Australia, Germany, and the United States.

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### Flexible Urban Transportation

By **J.L. Gifford**, *The School of Public Policy, George Mason University, Arlington, VA 22201, USA*  
*E-mail: jgifford@gmu.edu*

©2003 260 pages  
**ISBN 0-08-044053-3 Hardbound**  
**Publication: April 2003**  
**Price: EUR 85 / USD 85**

*Flexible Urban Transportation* is a sweeping reassessment of American highway and transit policy, which for the last half-century has been fixated on the Interstate highway system and its aftermath - its planning, design and construction, and the creative destruction it wrought. The Interstate fostered suburbanization, first of housing, then retail shopping, then employment, and it revolutionized freight logistics, making possible the tightly integrated, flexible and efficient supply chains characteristic of modern industry. But its aggressive construction divided and destroyed many urban communities and finally precipitated the furious backlash of the freeway revolt. American cities now face a profound dilemma. The private automobile as a means of personal travel has never been more popular. The retail economy

depends almost completely on highways. Yet communities are increasingly unwilling to build new highways or to expand existing highways. Traffic surges, congestion grows, along with frustration.

America needs a flexible, adaptive transportation system to support its highly dynamic and productive economy. But its transportation decision making process is mired in decades-old procedures that were forged in the wake of the freeway revolt. Every major American city follows essentially the same process. And now this process has broken down almost everywhere.

*Flexible Urban Transportation* is a bold proposal for a new kind of transportation decision making process focused on helping communities make transportation choices with a clear understanding of their consequences. Its foundation is honesty about what works - and what does not. Its cogent assessment of how American transportation planning got to where it is today, and its bold, thoughtful proposal for changing it, are required reading for those concerned about problems and prospects of transportation today.

#### AUDIENCE

For students, researchers and professionals concerned with the interactions between transportation policy and urban development.

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**Order, Efficiency, and the Struggle against Chaos.** Order and efficiency in the Italian Renaissance. Chaos and the search for order. The American renaissance. The progressive era. Scientific management. Standardization. Public administration. City planning and the city beautiful.

**The American Highway Program to 1956.** The first-generation highway program. The 1920s. The early Depression: 1930-1936. The late Depression: 1937-1941. Planning the interstate system. Toll roads versus free roads. Urban versus interregional highways. Design standards. Limited mileage. Cost estimates, financing, and the highway trust fund. Beltways. Institutional arrangements.

**The American Highway Program since 1956.** Building the Interstate: 1956-1991. The 1956 Highway Acts. The "Golden Age". The freeway revolt. Process, design, and values. Interstate 66, Fairfax and Arlington Counties. Virginia. Interstate 70, Glenwood Canyon, Colorado. Franconia Notch, New Hampshire. "Finishing" the Interstate. The post-interstate era. The Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA). National Highway System Designation Act of 1995. Transportation Equity Act for the 21st Century (TEA-21).

**Transportation Planning Methods.** The institutional context of transportation planning. The role of analysis in transportation planning.

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**The Evolution of Transportation Planning.** Highway planning prior to World War II. Metropolitan transportation planning. Urban travel modeling and the interstate program. National Environmental Policy Act. Alternatives analysis. ISTEA. Air quality planning. Period I: 1970-1990. Period II: the 1990s. Transportation planning and the control of air quality. National-scale planning. Highway needs studies. Condition and performance reports. Economic productivity studies.

#### **Challenges to the neoclassical economic paradigm:**

**complexity, adaptation, and flexibility.** Increasing returns. Sources of increasing returns. Properties of increasing returns systems. The Austrian school. Choice under uncertainty. Competition as learning. Capital structure. Implications for infrastructure planning.  
**The Need for a New Approach.** Four fallacies of the current approach. The exogenous goal fallacy. The predictive modeling fallacy. The efficiency fallacy.

The public involvement fallacy. A reinvented transportation planning process. Control. Flexibility. Control and flexibility. Adaptive discovery. Chapter appendix: bibliography on concept of flexibility.

**Transportation Planning: A Flexible Approach for the Twenty-First Century.** Stability and agility. Reinventing transportation planning. A commitment to honesty. Intelligence: a source of factual information. Decision support. Design and implementation. Design and procurement. Outreach and community involvement. Monitoring. Performance indicators. Monitoring flexibility. Assessing financial and economic viability.

**Reality Check: Institutionalizing Flexible Transportation Planning.** Going cold turkey. The national campaign. Consortia and informal voluntary organizations. TRANSCOM. E-ZPass. The data sharing model. A local, state, and regional implementation strategy. Metropolitan planning organizations. Informal voluntary organizations. The role of the states. Flexible planning at the federal level. Identify and address uncertainty in program plans and analyses. Shorten the time horizon for project analysis. Adopt incentives based on measurable outcomes. Facilitate sharing of information.

**An Agenda for Action.** Local, state, and regional actions. Establishment of an intelligence function. Develop a decision support function. Design and implementation. Conduct monitoring. National actions. Deregulate the metropolitan transportation planning process.

Revise federal policies to focus on measurable outcomes. Streamline the environmental approval process. Shorten the time for project cost-benefit analysis. Support a national or regional data interchange standards process. Reorient national planning around macroeconomic analysis. Conclusion. Index.

#### PERGAMON

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### Handbook of Transport and the Environment

Edited by **K.J. Button**, *The School of Public Policy, George Mason University, USA*

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©2003 approx. 650 pages  
**ISBN 0-08-044103-3 Hardbound**  
**Publication: June 2003**  
**Pre-publication price:**  
**EUR 128 / USD 128**  
*(for orders placed before 31st August 2003 )*  
**Price: EUR 160 / USD 160**  
*(for orders placed after 31st August 2003)*

Handbooks in Transport, Volume 4

Transport provides the technological means to facilitate movement of passengers and goods, but it is also at the centre of the growing concern about environmental degradation in the form of air pollution, global

warming, noise, and safety. Combined with traffic congestion in major conurbations - at the ports, at the airports, and on the roads, the transport sector has been cited as a major contributor to the ills of twentieth century society.

Despite the concerns about adverse environmental effects, it cannot be overlooked that there are, however, many positive features of transport. The challenge is to manage the benefits of transportation better so that the broad set of environmental impacts are reduced to acceptable levels while ensuring acceptable outcomes in terms of economic performance and equity. Sustainable transport will require careful consideration of technological innovation and increasing consumer awareness. This volume was constructed using a meta-analysis of relevant journal contributions to identify the key themes it would have to address. The outcome was 43 chapters. These chapters cover environmental concepts; key environmental concerns; the role of fuel sources and vehicle technology as means of reducing environmental externalities; appraisal, valuation and impacts of externalities; institutional and political settings and policies designed to combat growing environmental concerns; and the role of environmental legislation. A number of chapters highlight some specific themes that cut across many of the topic areas listed above. Early in the handbook seven chapters overview the contribution of each main transport sector to the consumption of energy and creation of emissions.

Each chapter was specially commissioned from an acknowledged world expert on its topic. Each offers an overview and useful insights to those familiar with the area as well as those new to it. Systematic and thorough in its creation, current and accessible in its content, and authoritative and international in its authorship, the *Handbook of Transport and the Environment* will be the definitive reference work on this important subject.

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### Studies in Law, Politics and Society, Volume 28

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©2003 206 pages  
ISBN 0-7623-1015-4 Hardbound  
Publication: May 2003  
Price: USD 90 / EUR 90

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## Studies in Symbolic Interaction, Volume 26

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©2003 322 pages  
**ISBN 0-7623-1009-X Hardbound**  
**Publication: March 2003**  
**Price: USD 90 / EUR 90**

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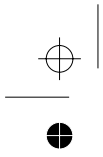
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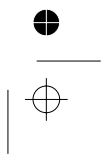
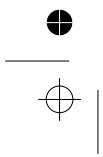
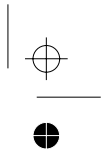
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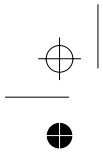
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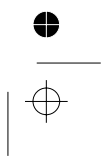
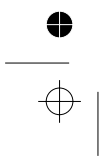
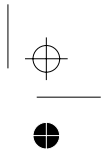
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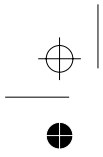
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