

# Le Macroscope Vers Une Vision Globale

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## Le Macroscope. Vers une vision globale

Le macroscopie Qu'y a-t-il de commun entre l'écologie, le système économique, l'entreprise, la ville, l'organisme, la cellule ? Rien, si on se contente de les examiner avec l'instrument habituel de la connaissance, l'approche analytique. Beaucoup, si l'on dépasse cette démarche classique pour faire ressortir les grandes règles d'organisation et de régulation de tous ces " systèmes ". Pour l'auteur, l'instrument symbolique de cette nouvelle manière de voir, de comprendre et d'agir est le " macroscopie \

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## Le macroscopie

The management of quality and sustainability in higher education institutions ensures that proper standards are maintained. Such enforced standardization allows for the highest caliber of training opportunities for various fields and disciplines. The Handbook of Research on Quality Assurance and Value Management in Higher Education is an authoritative reference source for the latest scholarly research on quality management and assurance programs and standards in college-level environments. Highlighting global perspectives on academic and professional learning, this book is ideally designed for researchers, policy makers, practitioners, and professionals actively involved in the field of higher education.

## The Macroscopie

This will be the first textbook on the integration of food, energy and water systems (FEWS). In recent years, the world has seen a dramatic rise in interdisciplinary energy and environmental courses and degrees at the undergraduate and graduate levels. In the US for instance, the number and variety of such programs has increased significantly over the past decade. Simultaneously, national and international initiatives that integrate food, energy and water systems have been launched. This textbook provides a substantive introduction to the food-energy-water nexus suitable for use in higher level undergraduate and graduate level courses and for scholars moving into the field of nexus studies without a strong background in all three areas and the many aspects of nexus studies.

#### Handbook of Research on Quality Assurance and Value Management in Higher Education

The book is reclaiming economics as a moral science. It argues that ethics is a relevant and inseparable aspect of all levels of economic activity, from individual and organizational to societal and global. Taking ethical considerations into account is needed in explaining and predicting the behavior of economic agents as well as in evaluating and designing economic policies and mechanisms. The unique feature of the book is that it not only analyzes ethics and economics on an abstract level, but puts behavioral, institutional and systemic issues together for a robust and human view of economic functioning. It sees economic "facts" as interwoven with human intentionality and ethical content, a domain where utility calculations and moral considerations co-determine the behavior of economic agents and the outcomes of their activities. The book employs the personalist approach that sees human persons – endowed with free will and conscience – as the basic agents of economic life and defines human flourishing as the final end of economic activities. The book demonstrates that economics can gain a lot in meaning and also in analytical power by reuniting itself with ethics.

#### The Food-Energy-Water Nexus

This book presents the complete story of the inseparably intertwined evolution of life and matter on earth, focussing on four major topics. It analyzes the driving forces behind global change and uses this knowledge to propose principles for global stewardship.

#### Economics as a Moral Science

Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 2 is the second of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity.

#### Earth System Analysis for Sustainability

This volume includes revised versions of most of the presentations made at the International Conference «Understanding the Earth System: Compartments, Processes and Interactions" held on November 24-26, 1999 in Bonn. The Conference was organized by the German National Committee on Global Change Research as part of the Bonn Science Festival 1999-2000. The Bonn Science Festival (Wissenschaftsfestival Region Bonn) was organized and funded by sfg Strukturförderungsgesellschaft Bonn/Rhein-Sieg/ Ahrweiler mbH. The generous support for organizing the conference and printing this volume by sfg is gratefully acknowledged. Additional financial and organizational support for separate workshop sessions and publications have also been provided by the German Federal Ministry for Science and Research, BMBF and Germany's major research funding agency, Deutsche Forschungsgemeinschaft. The editors wish to gratefully acknowledge the help, advice and especially patience of many individuals who have contributed to this volume. The contributions are intended to document the debate on crucial issues of the emerging concept of earth system science and to stimulate the necessary scientific discussion. While every effort has been made on the part of

the editors to ensure consistency in terminology, style and methods of quotation, the variety of contributors has inevitably resulted in certain discrepancies. E. EHLERS Bonn, February 2001 T. KRAFFT Contents Part I Panorama: The Earth System: Analysis from Science and the Humanities Chapter 1 Understanding the Earth System - From Global Change Research to Earth System Science ..... 3 E. EHLERS and T. KRAFFT Chapter 2 Earth System Analysis and Management. .... 17 ...

## Innovation Economics, Engineering and Management Handbook 2

The Cosmotheandric Experience is not a Christian, or an Indic, or a Buddhist study, but an interdisciplinary study with a firm foundation. It aims at an integration of the whole of reality: We have to reconstruct the body of Prajapati, even if some of the parts feel unworthy, are shy or run away ... We have to think of all of the fragments of the present world in order to bring them together into a harmonious--though not monolithic--whole. The Cosmotheandric principle, which the author advocates, could be formulated by saying that the divine, the human and the earthly are three irreducible dimensions which constitute the real.

## Understanding the Earth System

In this book Kerry Whiteside introduces the work of a range of French ecological theorists to an English-speaking audience. He shows how thinkers in France and in English-speaking countries have produced different strains of ecological thought and suggests that the work of French ecological theorists could lessen pervasive tensions in Anglophone ecology. Much of the theory written in English is shaped by the debate between anthropocentric ecologists, who contend that the value of our nonhuman surroundings derives from their role in fulfilling human interests, and ecocentric ecologists, who contend that the nonhuman world holds ultimate value in and of itself. This debate is almost nonexistent among French theorists, who tend to focus on the processes linking nature and human identity. Whiteside suggests that the insights of French theorists could help English-language theorists to extricate themselves from endless debates over the real center of nature's value. Among the French theorists discussed are Denis de Rougemont, Denis Duclos, René Dumont, Luc Ferry, André Gorz, Félix Guattari, Bruno Latour, Alain Lipietz, Edgar Morin, Serge Moscovici, and Michel Serres. The English-language theorists discussed include John Barry, Robyn Eckersley, Robert Goodin, Tim Hayward, Holmes Rolston III, and Paul Taylor.

## The Cosmotheandric Experience

Energy: Engine of Evolution is a compelling book that provides a compact history of energy over the last four billion years, with the aim of creating a sound basis to understanding the possible futures of the energy industry. It describes the role that energy has played in the evolution of nature and culture, the impact it has had on the world over time and the implications that we are faced with concerning the role of energy in the future. This book describes the relationship between life and energy through time, outlining how the major revolutions in the evolution of life on earth were driven by developments at the energy frontiers. Energy: Engine of Evolution states that we are on the verge of the next energy revolution, where we will learn how to master new energy forms in a new way. As a result of years of research and discussions by leading experts in the oil and gas industry, this publication offers inspiring insights and examples of new approaches to technological and evolutionary developments, paving the way towards a more sustainable future. \* Provides evolutionary insight \* Introduces an Energy Time Scale that shows key relationships between energy and the history of planet Earth \* Contains exciting examples of new approaches to sustainable development

## Divided Natures

How can we use information rather than be subjected to it? Does life have a digital logic? Is the internal structure of the universe made up of information? Is the Internet generating a collective brain? Ever since Homo sapiens, armed with his electronic machines, learned to unlock the secret of information and its alchemy by digitizing it, he has unleashed hyperinformation. This force is a subtle blend of matter and thought, animate and inanimate, virtual and real. For the first time in human history, technology seems to be generating a collective intelligence. Does this mean that reason is becoming truly alien to itself, potentially hostile and dangerous? Or are we witnessing the happy dawn of a new era? Homo sapiens 2.0 offers a journey into the mysteries of the human brain, the mysteries of genes and memes (their mental equivalent), and the secrets of language, religion and new technologies. From René Girard

to Richard Dawkins, from Teilhard de Chardin to Joël de Rosnay, the author recounts the saga of thought in the age of the virtual. In-between each chapter, “Interludes” take us on a journey through literary works or enlightening scientific experiments. Gérard Ayache has taught communications at the University of Paris-I, worked as director of a public television channel and heads the Institut Infométrie.

## Energy

Our current situation, marked simultaneously by the Anthropocene, global warming, digitization and exponential artificial intelligence, leads us to sudden and total change in global civilization and, de facto, to rebuilding the foundations of the international economy. Innovation Ecosystems explores the risks and opportunities facing the contemporary world by analyzing, comparing and categorizing the world's most dynamic innovation ecosystems by region and city. This includes the identification of key characteristics – common or original – and learning from them in terms of culture, management, system and structure, in order to meet current challenges and think about civilizations of the future.

## Integrated Natural Resource Management

Cooperation and clusters have become the guiding paradigms for explaining and promoting regional competitiveness, but the cooperation process between firms and universities and the transfer of knowledge in guiding and nurturing regional competitiveness has received relatively little attention. This book strives to fill this gap in highlighting the connection between inter-firm cooperation in regional clusters, innovation and regional networks, and the role of universities in them. It goes beyond the traditional economic approach of clusters and includes ‘soft factors’ in the explanation of regional competitiveness, and connects the literature on clusters to the literature of learning and knowledge creation as sources of regional competitiveness. It aims to foster an international and interdisciplinary exchange of perspectives by presenting current developments, case studies, best practices as well as new integrated theoretical approaches and applications.

## Homo Sapiens 2.0

Eleven plants were chosen so as to cover a wide range of biological characteristics (perennial, annual, autogamous, allogamous, etc.) in this study. Three chapters on methodology complement these studies. The first is devoted to the use of biological and molecular markers to analyse the diversity of collections, the second addresses data analysis, and the third describes a method for constituting core collections based on maximization of variability.

## Public and Private Sector Roles in the Provision of Agricultural Support Services

This collection of articles, developed in association with the EU funded ViBRANT project, illustrates how advances to research infrastructures are reciprocally changing the practice of taxonomy. A detailed review of data issues in the life sciences (Thessen and Patterson 2011) sets the tone for subsequent articles in this special issue, whose contributions broadly fall into three categories. The initial articles consider some of the major infrastructure platforms that support the production and management of biodiversity data. These include the EDIT Platform for Cybertaxonomy, Wiki-based approaches including BioWikiFarm and the Scratchpads Virtual Research Environment. Later articles provide deeper coverage of specialist areas of interest to taxonomic and biodiversity researchers. The topics covered include the mark-up (Penev et al. 2011) and management (King et al. 2011) of taxonomic literature, geospatial assessment of species distributions (Bachman et al. 2011) and licensing issues specific to life science data (Hagedorn et al. 2011). Finally, the special issue closes with a series of research and review papers that provide detailed use cases illustrating how these research infrastructures are being put into practice. Highlights from this section include citizen science approaches to collecting species information by the COMBER Marine observation network (Arvanitidis et al. 2011) and the Australian Bush Blitz programme (Lambkin and Bartlett 2011); use of new tools for data publishing like the Global Biodiversity Information Facility (GBIF) Integrated Publishing Toolkit (IPT) and the DRYAD Data Repository; new forms of publication via ‘data papers’ that allow checklists and identification keys to be formally published as structured datasets (e.g., Narwade et al. 2011); and finally new taxonomic revisions and species descriptions constructed from within the collaborative systems like XPER2 and Scratchpads.

## Innovation Ecosystems

This book describes a systematic approach to risk assessment for complex socio-technical systems like industrial processes, especially innovative ones. It provides an overview of applications of system dynamics theory and methodologies on industrial systems in order to demonstrate the relevance of such an approach in helping to assess risks in such complex systems. An important feature of this approach is that it takes into account the dynamic of the interactions of the components (technical, human and organizational ones) in order to study and simulate the behavior of the system. This methodology helps to define the failures and/or accident scenarios and to implement and test the prevention and protection barriers. This book is of particular interest to students and teachers at university level (Master and Doctorate) and to engineers interested in risk analysis and management.

#### Cooperation, Clusters, and Knowledge Transfer

With human-induced environmental impacts disrupting human life in deeper ways and at a wider scale than anything previously experienced, this multidisciplinary book looks at the ways that current knowledge bases seem inadequate to help us deal with such realities. It offers a critical appraisal of the current knowledge infrastructure, including science, technology, innovation, education and informal knowledge systems.

#### Ecology

This book addresses disaster risk reduction (DRR) policies, focusing on reducing the paradox that exists between the compulsory implementation of DRR policies and continuing limitations. The authors use their knowledge of the ever-evolving threats associated with disasters and their prevention to investigate this famous paradox and propose solutions that will help readers understand and reconsider its existence. The authors also discuss conditionings behind this paradox, helping readers understand the existing solutions, also suggesting how to reduce the limitations of DRR policies. Offers a fresh perspective on the assessments currently available on disaster and DRR policies. Provides insight based on examples of DRR policies taken from Latin American, Asian, and European cases. Focuses on reducing the paradox that exists between the compulsory implementation of DRR policies and continuing limitations.

#### E-Infrastructures for Data Publishing in Biodiversity Science

This book considers the principle of 'sustainable development' which is currently facing a growing environmental crisis. A new mode of thinking and positioning the ecological imperative is the major input of this volume. The prism of co-viability is not the economics of political agencies that carry the ideology of the dominant/conventional economic schools, but rather an opening of innovation perspectives through science. This volume, through its four parts, more than 40 chapters and a hundred authors, gives birth to a paradigm which crystallizes within a concept that will support in overcoming the ecological emergency deadlock.

#### Safety Dynamics

Science and Football V presents the edited papers from the Fifth World Congress on Science and Football that took place in Portugal in April 2003. The collection represents the latest scientific research into the variety of sports known as football such as association football; rugby codes (Union and League); national codes (American, Australian and Gaelic). A recurring theme for this series of conferences has been a commitment to bridge the gaps between theory and practice in the service of the promotion of high quality applied football science. The book is clearly structured into nine parts and focuses on the following key issues: introductory keynote address biomechanics and mechanics fitness test profiling of footballers performance and match analysis football medicine football training paediatric exercise science physiology and nutrition behavioural and social sciences. This collection provides valuable information for coaches, players, trainers, managers, medical and support staff, and scientific workers concerned with the range of football codes.

#### Knowledge For The Anthropocene

This study looks at the fundamentals of soil science and soil biology, encompassing topics such as the building blocks of the soil system and bioremediation of contaminated soils.

#### Disaster Prevention Policies

This book is the fruit of the author's six years of research and fieldwork undertaken while at the Centre for Sustainable Development Research and Interdisciplinary Studies—Troyes University of Technology. The research and field work were concentrated on material and energy flow loops, the principal tool that industrial ecology puts forward in order to limit environmental and economic impacts caused by the abuse of natural resources. The book is aimed at those responsible for providing a bit of substance to the objective of sustainable development. It also aims to disseminate this information towards future caretakers of the planet who today occupy seats at universities.

### Coviability of Social and Ecological Systems: Reconnecting Mankind to the Biosphere in an Era of Global Change

Advances in research and development reveal the immense diversity and potential of marine genetic resources. Under international law, no specific regime applies to these complex and paradoxical objects of use. The Law of the Sea Convention sets a framework that is partly inadequate for this new category of resources. The Biodiversity Convention and the Nagoya Protocol only address the genetic resources of national areas. Patents allow their holder to exercise a monopoly on exploiting biotechnological creations to extensive claims, questioning the common nature of biodiversity and related knowledge. They hinder research and the objectives of biodiversity law. The legal and practical rules of physical and functional access vary in geometry. They focus on the valorization of research results, crystallizing conflicts of interest between suppliers and users. Sustainable research and development is essential to the knowledge and protection of marine biodiversity. The qualification of marine genetic resources in common, standard contractual tools, distributed research and development infrastructures, negotiation of an agreement on sustainable use and conservation of biodiversity beyond the limits of national jurisdiction, would remove these inconsistencies.

### Science and Football V

In a context where climate change urgently requires us to alter our paradigms, this book explores the possibilities of cities that are both more energy efficient and more respectful of the environment. Based on the observation that urban planning has been detrimentally affected by the compartmentalization of knowledge and practices, this book is conceived as a dialog between transport and urban planning on the one hand, and between engineering and social science on the other. Systemic analysis and a historical approach, integrating the teachings of the last two centuries, constitute at the methodological level the framework in which this dialog unfolds. Based on examples of good practice, Transport and Town Planning identifies an effective set of levers of action and proposes an original method to guide and accompany urban transition with a large share of the initiative reserved for the actors concerned.

### The Living Soil

Faced with ever-increasing complexity on a daily basis, the decision-makers of today are struggling to find the appropriate models, methods and tools to face the issues arising in complex systems across all levels of global operations. Having, in the past, resorted to outdated approaches which limit problem-solving to linear world views, we must now capitalize on complexities in order to succeed and progress in our society. This book provides a guide to harnessing the wealth inherent to complex systems. It organizes the transition to complex decision-making in all business spheres while providing many examples in various application domains. The authors offer fresh developments for understanding and mastering the global "uberization" of the economy, the post-modern management of computer-assisted production and the rise of cognitive robotics science applications.

### Implementing Industrial Ecology

This four-volume collection of over 140 original chapters covers virtually everything of interest to demographers, sociologists, and others. Over 100 authors present population subjects in ways that provoke thinking and lead to the creation of new perspectives, not just facts and equations to be memorized. The articles follow a theory-methods-applications approach and so offer a kind of "one-stop shop" that is well suited for students and professors who need non-technical summaries, such as political scientists, public affairs specialists, and others. Unlike shorter handbooks, *Demography: Analysis and Synthesis* offers a long overdue, thorough treatment of the field. Choosing the analytical method that fits the data and the situation requires insights that the authors and editors of *Demography: Analysis and Synthesis* have explored and developed. This extended examination of demographic tools not only seeks to explain the analytical tools themselves, but also the relationships between general

population dynamics and their natural, economic, social, political, and cultural environments. Limiting themselves to human populations only, the authors and editors cover subjects that range from the core building blocks of population change--fertility, mortality, and migration--to the consequences of demographic changes in the biological and health fields, population theories and doctrines, observation systems, and the teaching of demography. The international perspectives brought to these subjects is vital for those who want an unbiased, rounded overview of these complex, multifaceted subjects. Topics to be covered: \* Population Dynamics and the Relationship Between Population Growth and Structure \* The Determinants of Fertility \* The Determinants of Mortality \* The Determinants of Migration \* Historical and Geographical Determinants of Population \* The Effects of Population on Health, Economics, Culture, and the Environment \* Population Policies \* Data Collection Methods and Teaching about Population Studies \* All chapters share a common format \* Each chapter features several cross-references to other chapters \* Tables, charts, and other non-text features are widespread \* Each chapter contains at least 30 bibliographic citations

#### Marine Genetic Resources, R&D and the Law 1

Universal Design is the term used to describe the design of products and environments which can be used by all people, to the greatest extent possible, without the need for adaptation or specialized design. It is not a euphemism for 'designs for people with a disability', but really is about designing to include all people, regardless of their age, ability, cultural background or status in life. However it remains the case that many designers and developers fail to understand the need for universal design and lack the skills needed to implement it. This book presents papers from the 3rd International Conference on Universal Design (UD 2016), held in York, UK, in August 2016. The theme of the conference was: learning from the past, designing for the future, and it aimed to bring together policymakers, practitioners and researchers interested in the different strands of universal design to exchange ideas and best practice, review some of the developments in universal design from the last 20 years, and formulate strategies for taking the concept of universal design forward into the future. The book is divided into two sections. Section 1: About Universal Design, and Section 2: Universal Design In Practice. The book will be of interest to all those whose work involves design, from the built environment and tangible products to communication, services and systems.

#### Transport and Town Planning

"This book problematizes the construct of distance second language learning, in order to see what it covers, if its parameters are well-defined, what theories can guide the actions of the participants, and whether a model of action can be suggested with a method to validate the model"--Provided by publisher.

#### Smart Decisions in Complex Systems

The concepts of innovation and export are traditionally considered in isolation, both within companies and within the support organizations dedicated to them. As a result, within this broad research field, very little academic work has focused on how to implement their relationship at an operational level. This book proposes a joint diagnostic tool for SMEs, highlighting good practices to be mastered in order to simultaneously improve innovation and export performance, in the form of a virtuous circle. Innovation and Export focuses on the integration of innovation and export into the strategic management of SMEs, for which the use of synergies is a powerful lever to overcome any difficulties in mobilizing significant resources.

#### Demography: Analysis and Synthesis, Four Volume Set

This book traces the origins and evolution of cybersemiotics, beginning with the integration of semiotics into the theoretical framework of cybernetics and information theory. The book opens with chapters that situate the roots of cybersemiotics in Peircean semiotics, describe the advent of the Information Age and cybernetics, and lay out the proposition that notions of system, communication, self-reference, information, meaning, form, autopoiesis, and self-control are of equal topical interest to semiotics and systems theory. Subsequent chapters introduce a cybersemiotic viewpoint on the capacity of arts and other practices for knowing. This suggests pathways for developing Practice as Research and practice-led research, and prompts the reader to view this new configuration in cybersemiotic terms. Other contributors discuss cultural and perceptual shifts that lead to interaction with hybrid environments such as Alexa. The relationship of storytelling and cybersemiotics is covered at chapter length, and another

chapter describes an individual-collectivity dialectics, in which the latter (Commind) constrains the former (interactants), but the former fuels the latter. The concluding chapter begins with the observation that digital technologies have infiltrated every corner of the metropolis - homes, workplaces, and places of leisure - to the extent that cities and bodies have transformed into interconnected interfaces. The book challenges the reader to participate in a broader discussion of the potential, limitations, alternatives, and criticisms of cybersemiotics.

#### Universal Design 2016: Learning from the Past, Designing for the Future

The first two editions of the Handbook of Human Performance Technology helped define the rapidly growing and vibrant field of human performance technology - a systematic approach to improving individual and organizational performance. Exhaustively researched, this comprehensive sourcebook not only updates key foundational chapters on organizational change, evaluation, instructional design, and motivation, but it also features breakthrough chapters on "performance technology in action" and addresses many new topics in the field, such as certification, Six Sigma, and communities of practice. Boasting fifty-five new chapters, contributors to this new edition comprise a veritable "who's who" in the field of performance improvement, including Geary Rummler, Roger Kaufman, Ruth Clark, Allison Rossett, Margo Murray, Judith Hale, Dana and James Robinson, and many others. Praise for the third edition of the Handbook of Human Performance Technology "If you are in the business of trying to improve organizational performance, this Handbook should be the first place you look for answers to questions about human performance technology." - Joseph J. Durzo, CPT, Ph.D., senior vice president and chief learning officer, Archstone-Smith "This newest edition of the Handbook provides an unparalleled, all-encompassing survey of the latest theory and its practical application in this emergent field. This book is a must-have reference for any professional wishing to systematically improve performance within their organization." - Weston McMillan, CPT, manager, training and development, eBay Inc. "An invaluable, engaging resource for anyone charged with improving workplace performance. It not only provides the background and foundations of our profession, but more importantly, it also provides the most up-to-date descriptions of how to apply HPT to drive results." - Rodger Stotz, CPT, vice president and managing consultant, Maritz Inc. "This book is filled with insights--both for those who are new to the field and also for those who are experienced. It offers concrete advice and examples on how to use HPT to impact business results and how to work successfully within organizations." - Anne Marie Laures, CPT, director, learning services, Walgreen Co. "The Handbook contains many of the secrets for improving the performance of individuals, groups, and organizations." - Robert F. Mager, author, *Analyzing Performance Problems and How to Turn Learners On...Without Turning Them Off*

#### Second Language Distance Learning and Teaching: Theoretical Perspectives and Didactic Ergonomics

This edited volume constructs a 'cosmopolitics' of climate change, consulting small-scale sustainable communities on whether the world is ending and why, and how we can take action to prevent it. By comparing scientific and indigenous accounts of the same phenomenon, contributors seek to broaden Western understandings of what climate change constitutes. In this context, existing cosmologies are challenged, opening spaces for hegemonic narratives to enter into conversation with the non-modern and construct 'worlds otherwise'—situations of world change and renewal through climate change. Bold brings together perspectives from Central America, Mexico, the Amazon, and the Andes to converse with scientific narratives of climate change and create cracks that bring new worlds into being for readers.

#### Proceedings of the 2nd European Simulation Congress, Sept. 9-12, 1986, The Park Hotel, Antwerp, Belgium

Innovation and Export