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*Computational Modelling of Concrete Structures* - Nenad Bicanic 2010-02-24  
Since 1984 the EURO-C conference series (Split 1984, Zell am See 1990, Innsbruck 1994, Badgastein 1998, St Johann im Pongau 2003, Mayrhofen 2006, Schladming 2010) has provided a forum for academic discussion of the latest theoretical, algorithmic and modelling developments associated with computational simulations of concrete and concrete structure  
*Metrology and Diagnostic*

*Techniques for Nanoelectronics* - Zhiyong Ma 2017-03-27  
Nanoelectronics is changing the way the world communicates, and is transforming our daily lives. Continuing Moore's law and miniaturization of low-power semiconductor chips with ever-increasing functionality have been relentlessly driving R&D of new devices, materials, and process capabilities to meet performance, power, and cost requirements. This book covers up-to-date advances in

research and industry practices in nanometrology, critical for continuing technology scaling and product innovation. It holistically approaches the subject matter and addresses emerging and important topics in semiconductor R&D and manufacturing. It is a complete guide for metrology and diagnostic techniques essential for process technology, electronics packaging, and product development and debugging—a unique approach compared to other books. The authors are from academia, government labs, and industry and have vast experience and expertise in the topics presented. The book is intended for all those involved in IC manufacturing and nanoelectronics and for those studying nanoelectronics process and assembly technologies or working in device testing, characterization, and diagnostic techniques.

Research in Building Physics -

J. Carmeliet 2003-01-01

This text provides a broad view of the research performed in

building physics at the start of the 21st century. The focus of this conference was on combined heat and mass flow in building components, performance-based design of building enclosures, energy use in buildings, sustainable construction, users' comfort and health, and the urban micro-climate.

**Special Language** - Christer Laurén 1989-01-01

As the most advanced human thinking is expressed by special language there are exciting possibilities for research in which philosophical, semantic, semiotic, text-linguistic and pragmatic approaches are utilized.

**Investigations and Applications of Severe Plastic Deformation** - Terry C. Lowe 2012-12-06

Material processing techniques that employ severe plastic deformation have evolved over the past decade, producing metals, alloys and composites having extraordinary properties. Variants of SPD methods are now capable of

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creating monolithic materials with submicron and nanocrystalline grain sizes. The resulting novel properties of these materials has led to a growing scientific and commercial interest in them. They offer the promise of bulk nanocrystalline materials for structural; applications, including nanocomposites of lightweight alloys with unprecedented strength. These materials may also enable the use of alternative metal shaping processes, such as high strain rate superplastic forming. Prospective applications for medical, automotive, aerospace and other industries are already under development.

*Automatic Supervision in Manufacturing* - Maciej Szafarczyk 2012-12-06

Automation is a predominant objective in the development of modern and advanced manufacturing production. *Automatic Supervision in Manufacturing (ASM)* addresses unavoidable disturbances occurring during production. Its application

results in the unmanned functioning of manufacturing systems through comprehensive and reliable supervision. *Automatic Supervision in Manufacturing* is a collection of contributions written by specialists in the field from Europe and the USA. It deals with the concept of automatic supervision, the classification of supervisory systems and their functions. This publication will be of great interest to researchers and engineers in the areas of production and manufacturing. [Focus on French as a Foreign Language](#) - Jean-Marc Dewaele 2005

This book offers sharp new insights into the acquisition and use of French as a foreign language. The authors are specialists in their particular theoretical paradigms and focus on morphology, morpho-syntax, syntax, discourse, as well as fluency in the French interlanguage from beginners to advanced learners with different first languages.

*Static Analysis* - Giorgio Levi 2003-06-29

This book constitutes the refereed proceedings of the 5th International Symposium on Static Analysis, SAS'98, held in Pisa, Italy, in September 1998. The 20 revised full papers presented were carefully reviewed and selected from a total of 48 submissions. Also included is an invited tutorial. The papers are organized in topical sections on data-flow analysis, logic programming, concurrency, abstract domains, partial evaluation, type inference, and optimization. The invited tutorial by David Schmidt and Bernhard Steffen is entitled "data-flow analysis as model checking of abstract interpretations".

Integrated Visual Servoing and Force Control - Joris de Schutter 2003-09-22

Sight and touch are two elementary, but highly complementary senses - for humans as well as for robots. This monograph develops an integrated vision/force control approach for robotics, combining the advantages of both types of sensors while overcoming their individual

drawbacks. It shows how integrated vision/force control improves the task quality in the sense of increased accuracy and execution velocity and widens the range of feasible tasks. The unique feature of this work lies in its comprehensive treatment of the problem from the theoretical development of the various schemes down to the real-time implementation of interaction control algorithms on an industrial robot. The presented approach and its potential impact on the performance of the next generation of robots is starting to be recognized by major manufacturers worldwide.

Computer Vision/Computer Graphics Collaboration Techniques - André Gagalowicz 2011-10-12

This book constitutes the refereed proceedings of the 5th International Conference on Computer Vision/Computer Graphics Collaboration Techniques, MIRAGE 2011, held in Rocquencourt, France, in October 2011. The 23 full papers presented were

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carefully reviewed and selected from numerous submissions. The papers cover a wide range of topics with focus on Computer Vision/Computer Graphics Collaboration Techniques involving image analysis/synthesis approaches especially concerning theoretical, computational, experimental or industrial aspects of model-based image analysis and image-based model synthesis.

Simulation of the thermoforming process of UD fiber-reinforced thermoplastic tape laminates - Dörr, Dominik 2021-10-29

In this work, initially, the requirements on a simulation model of the non-isothermal stamp forming process of unidirectional fiber-reinforced, and thermoplastic tape laminates are investigated experimentally. On this basis, different isothermal as well as a fully coupled thermomechanical simulation model under consideration of the crystallization kinetics are developed. For validation, a complex shaped geometry is

simulated and compared to experimental forming results. Differential Geometry and Global Analysis - Bang-Yen Chen 2022-04-07

This volume contains the proceedings of the AMS Special Session on Differential Geometry and Global Analysis, Honoring the Memory of Tadashi Nagano (1930-2017), held January 16, 2020, in Denver, Colorado. Tadashi Nagano was one of the great Japanese differential geometers, whose fundamental and seminal work still attracts much interest today. This volume is inspired by his work and his legacy and, while recalling historical results, presents recent developments in the geometry of symmetric spaces as well as generalizations of symmetric spaces; minimal surfaces and minimal submanifolds; totally geodesic submanifolds and their classification;

Riemannian, affine, projective, and conformal connections; the  $(M_{+}, M_{-})$  method and its applications; and maximal antipodal subsets. Additionally,

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the volume features recent achievements related to biharmonic and biconservative hypersurfaces in space forms, the geometry of Laplace operator on Riemannian manifolds, and Chen-Ricci inequalities for Riemannian maps, among other topics that could attract the interest of any scholar working in differential geometry and global analysis on manifolds.

*Hybrid Systems V* - Panos J. Antsaklis 2003-07-31

This book constitutes the strictly refereed post-proceedings of the 5th International Hybrid Systems Workshop held in Notre Dame, Indiana, USA in September 1998. The 23 revised full papers presented in the book have gone through two rounds of thorough reviewing and revision. The volume presents state-of-the-art research results and particularly addresses such areas as program verification, concurrent and distributed processes, logic programming, logics of programs, discrete event simulation, calculus of

variations, optimization, differential geometry, Lie algebras, automata theory, dynamical systems, etc.

*Logic Program Synthesis and Transformation* - Maurizio Proietti 1996-03-06

This book constitutes the refereed proceedings of the 5th International Workshop on Logic Program Synthesis and Transformation, LOPSTR'95, held in Utrecht, The Netherlands in September 1995. The 19 papers included were selected from 40 workshop submissions; they offer a unique up-to-date account of the use of formal synthesis and transformation techniques for computer-aided development of logic programs. Among the topics addressed are deductive and inductive program synthesis, synthesis models based on constructive type theory, program specification, program analysis, theorem proving, and applications to various types of programs.

**Electromagnetic Fields in Electrical Engineering** -

Andrzej Krawczyk 2002

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This volume includes contributions on: field theory and advanced computational electromagnetics; electrical machines and transformers; optimization and interactive design; electromagnetics in materials; coupled field and electromagnetic components in mechatronics; induction heating systems; bioelectromagnetics; and electromagnetics in education.

*Continuous-Time Digital Front-Ends for Multistandard*

*Wireless Transmission* - Pieter A. J. Nuyts 2014-01-03

This book describes the design of fully digital multistandard transmitter front-ends which can directly drive one or more switching power amplifiers, thus eliminating all other analog components. After reviewing different architectures, the authors focus on polar architectures using pulse width modulation (PWM), which are entirely based on unclocked delay lines and other continuous-time digital hardware. As a result, readers are enabled to shift accuracy concerns from the

voltage domain to the time domain, to coincide with submicron CMOS technology scaling. The authors present different architectural options and compare them, based on their effect on the signal and spectrum quality. Next, a high-level theoretical analysis of two different PWM-based architectures - baseband PWM and RF PWM - is made. On the circuit level, traditional digital components and design techniques are revisited from the point of view of continuous-time digital circuits. Important design criteria are identified and different solutions are presented, along with their advantages and disadvantages. Finally, two chips designed in nanometer CMOS technologies are described, along with measurement results for validation.

*Logic Programming* - Maria Garcia Banda 2008-12-02

This volume contains the proceedings of the 24th International Conference on Logic Programming (ICLP 2008). The conference took place in Udine, Italy during

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December 9–13, 2008. The conference focuses on the foundations, developments, and applications in the area of logic programming. The ICLP series of conferences is aimed at providing a technical forum for presenting and disseminating innovative research results in the field of logic programming. The conference features technical presentations, tutorials, invited speakers, and a number of co-located events, including: – The First Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2008) – The Annual Meeting of the ISO/IEC JTC1/SC22/WG17 working group on the standardization of Prolog – The Third International Workshop on Applications of Logic Programming to (Semantic) Web and Web Services (ALPSWS'08) – The 18th Workshop on Logic-based Methods in Programming Environments (WLPE 2008) – The 8th Colloquium on Implementation of Constraint Logic

Programming Systems (CICLOPS 2008) – The 15th RCRA Workshop on Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion ICLP 2008 also featured two special events. The first was the 4th ICLP Doctoral Student Consortium, an event specifically organized to encourage participation and interaction between doctoral students working in the area of logic programming. The second event was a special session celebrating 20 years of Stable Model Semantics.

**Air Bearings** - Farid Al-Bender  
2021-01-11

Comprehensive treatise on gas bearing theory, design and application This book treats the fundamental aspects of gas bearings of different configurations (thrust, radial, circular, conical) and operating principles (externally pressurized, self-acting, hybrid, squeeze), guiding the reader throughout the design process from theoretical modelling, design parameters, numerical formulation, through

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experimental characterisation and practical design and fabrication. The book devotes a substantial part to the dynamic stability issues (pneumatic hammering, sub-synchronous whirling, active dynamic compensation and control), treating them comprehensively from theoretical and experimental points of view. Key features: Systematic and thorough treatment of the topic. Summarizes relevant previous knowledge with extensive references. Includes numerical modelling and solutions useful for practical application. Thorough treatment of the gas-film dynamics problem including active control. Discusses high-speed bearings and applications. Air Bearings: Theory, Design and Applications is a useful reference for academics, researchers, instructors, and design engineers. The contents will help readers to formulate a gas-bearing problem correctly, set up the basic equations, solve them establishing the static and dynamic

characteristics, utilise these to examine the scope of the design space of a given problem, and evaluate practical issues, be they in design, construction or testing. Soil Erosion in Europe - John Boardman 2007-01-11 Provides a unique and comprehensive assessment of soil erosion throughout Europe, an important aspect to control and manage if landscapes are to be sustained for the future. Written in two parts, Soil Erosion in Europe primarily focuses on current issues, area specific soil erosion rates, on and off-site impacts, government responses, soil conservation measures, and soil erosion risk maps. The first part overviews the erosion processes and the problems encountered within each European country, whilst the second section takes a cross-cutting theme approach. Based on an EU-funded project that has been running for four years with erosion scientists from 19 countries Reviews contemporary erosion processes and rates on arable

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and rangeland in Europe Looks at current issues, such as socio-economic drivers, controlling factors specific to the country and changes in land use

*Computer Aided Architectural Design Futures 2001* - Bauke de Vries 2011-06-27

CAAD Futures is a Bi-annual Conference that aims at promoting the advancement of computer aided architectural design in the service of those concerned with the quality of the built environment. The conferences are organised under the auspices of the CAAD Futures Foundation which has its secretariat at the Eindhoven University of Technology. The Series of conferences started in 1985 in Delft, and has since travelled through Eindhoven, Boston, Zurich, Pittsburgh, Singapore, Munich, and Atlanta. The book contains the proceedings of the 9th CAAD Futures conference which took place at Eindhoven University of Technology, 8-11 of July, 2001. The Articles in this book cover a wide range of subjects and provide an

excellent overview of the state-of-the-art in research on computer aided architectural design. The following categories of articles are included: Capturing design; Information modelling; CBR techniques; Virtual reality; CAAD education; (Hyper) Media; Design evaluation; Design systems development; Collaboration; Generation; Design representation; Knowledge management; Form programming; Simulation; Architectural analysis; Urban design. Information on the CAAD Futures Foundation and its conferences can be found at:

[www.caadfutures.arch.tue.nl](http://www.caadfutures.arch.tue.nl).

Information about the 2001 Conference and this book is available from:

[www.caadfutures.arch.tue.nl/2001](http://www.caadfutures.arch.tue.nl/2001).

*Integrated Plant Nutrient Management in Sub-Saharan Africa* - 2002

Soil degradation and nutrient depletion have become serious threats to agricultural productivity in Africa. Soils cannot supply the quantities of

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nutrients required and yield levels decline rapidly once cropping commences. This book addresses these issues and includes papers from an international symposium held at Cotonou, Benin, October 9-12, 2000, organized by the International Institute of Tropical Agriculture, Ibadan, Nigeria and the Department of Land Management of the Katholieke Universiteit Leuven, Belgium. In five main parts it marks the end of a first phase of collaborative research on "Balanced Nutrient Management Systems for the Moist Savanna and Humid Forest Zones of Africa" and concludes with recommendations, providing essential reading for crop and soil scientists.

Logic Programming - Sandro Etalle 2006-08-08

This book constitutes the refereed proceedings of the 22nd International Conference on Logic Programming, ICLP 2006, held in Seattle, WA, USA, in August 2006. This volume presents 20 revised full papers and 6 application papers

together with 2 invited talks, 2 tutorials and special interest papers, as well as 17 poster presentations and the abstracts of 7 doctoral consortium articles. Coverage includes all issues of current research in logic programming.

**Industrial Applications of Holonic and Multi-Agent Systems** - Vladimír Mařík  
2015-08-10

This book constitutes the refereed proceedings of the 7th International Conference on Industrial Applications of Holonic and Multi-Agent Systems, HoloMAS 2015, held in Valencia, Spain, in September 2015. The 19 revised full papers presented together with one invited talk were carefully reviewed and selected from 27 submissions. The papers are organized in the following topical sections: surveys, conceptual design and validation, digital factories and manufacturing control systems, ARUM: adaptive production management, and smart grids, complex networks and big data.

**Report 37: Environment-**

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**Conscious Construction  
Materials and Systems -  
State-of-the-Art Report of  
RILEM Technical  
Committee 192-ECM -  
Norimoto Kashino 2007**

**Structure-borne Sound  
Sources in Buildings -  
Matthias Lievens 2013-07-30**  
Structure-borne sound sources are vibrational sources connected in some way to the building structure. The mechanical excitation of the building structure leads to sound radiation. This is an important source of annoyance in modern light-weight buildings. The prediction of the sound pressure level from structure-borne sound sources is highly complicated because of the complexity involved in the coupling between source and receiver structure. The current standard on characterisation of service equipment in buildings EN 12354-5, can deal with sources on heavy structures (high-mobility source) but to date, there is no engineering method available for the case of

coupling between source and receiver. A case study of a washing machine on a wooden joist floor is investigated in this thesis. In the first part, measurements in the coupled state are conducted. It is shown that the normal components are sufficient to predict the sound pressure level. However, this only applies to the coupled state. In the second part, a true prediction is calculated from independently measured source and receiver quantities. The difference between predicted and directly measured sound pressure level leads to considerable errors of up to 20 dB at low frequencies. This shows that the normal components are not sufficient to predict the coupling between a washing machine and a wooden floor.

*Design of Wireless Autonomous  
Datalogger IC's - Wim Claes  
2006-03-30*

Design of Wireless Autonomous Dataloggers IC's reveals the state of the art in the design of complex dataloggers, with a special focus on low power

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consumption. The emphasis is on autonomous dataloggers for stand-alone applications with remote reprogrammability. The book starts with a comprehensive introduction on the most important design aspects and trade-offs for miniaturized low-power telemetric dataloggers. After the general introduction follows an in-depth case study of an autonomous CMOS datalogger IC for the registration of in vivo loads on oral implants. After tackling the design of the datalogger on the system level, the design of the different building blocks is elaborated in detail, with emphasis on low power. A clear overview of the operation, the implementation, and the most important design considerations of the building blocks to achieve optimal system performance is given. Design of Wireless Autonomous Dataloggers IC's discusses the design of correlated double sampling amplifiers and sample-and-holds, binary-weighted current steering DACs, successive

approximation ADCs and relaxation clock oscillators and can also be used as a manual for the design of these building blocks. Design of Wireless Autonomous Dataloggers IC's covers the complete design flow of low-power miniaturized autonomous dataloggers with a bi-directional wireless link and on-board data processing, while providing detailed insight into the most critical design issues of the different building blocks. It will allow you to design complex dataloggers faster. It is essential reading for analog design engineers and researchers in the field of miniaturized dataloggers and is also suitable as a text for an advanced course on the subject.

**Freshwater and Estuarine Radioecology** - J. A.

Fernandez 1997

Hardbound. The Chernobyl accident drew attention to the difficulties of understanding the dynamics of radionuclide transport through the environment using older methods developed after the pseudo steady state pollution

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resulting after the weapons testing fallout. More recent approaches, which are reported in this book, have incorporated both the dynamic aspects highlighted by the pulse Chernobyl input and the importance of improvement in models that can be brought about by constraining parameters on the basis of a knowledge of the fundamental physics, chemistry, biology and ecology of the ecosystems involved. The papers within this volume include hydrodynamic models of suspended solids transport, ion exchange interpretation of radionuclide sorption: approaches applying a knowledge of membrane transport kinetics to the uptake of radionuclides by biota; the effects of different ecological niches on the relative uptake of radionuclides by different species;

Applied Building Physics -

Hugo S. L. Hens 2012-01-09

The energy crises of the 1970s, persisting moisture problems, complaints about sick buildings, thermal, visual and

olfactory discomfort, and the move towards more sustainability in building construction have pushed Building Physics to the forefront of building innovation. The societal pressure to diminish energy consumption in buildings without impairing usability acted as a trigger to activate the whole notion of performance based design and construction. As with all engineering sciences, Building Physics is oriented towards application, which is why, after a first book on fundamentals this second volume examines performance rationale and performance requirements. Outdoor and indoor climate conditions are described and calculation values are discussed, the performance concept is specified at the building level and at the building envelope level, and heat-air-moisture material properties are defined. The book incorporates 35 years of teaching Building Physics to architectural, building and civil engineers, bolstered by 40

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years of experience, research and consultancy.

Logic Programming - Verónica Dahl 2007-08-24

This book contains the refereed proceedings of the 23rd International Conference on Logic Programming, ICLP 2007, held in Porto, Portugal. The 22 revised full papers together with two invited talks, 15 poster presentations, and the abstracts of five doctoral consortium articles cover all issues of current research in logic programming, including theory, functional and constraint logic programming, program analysis, answer-set programming, semantics, and applications.

Constraint Handling Rules - Compilation, Execution, and Analysis - Thom Frühwirth 2018-01-16

Constraint Handling Rules (CHR) is both a theoretical formalism and a practical programming language. This book provides an overview of CHR research based on a reviewed selection of doctoral theses. After a basic introduction to CHR, the book

presents results from three different areas of CHR research: compilation and optimization, execution strategies, and program analysis. The chapters offer in-depth treatises of selected subjects, supported by a wealth of examples. The book is ideal for master students, lecturers, and researchers.

Medical Image Computing and Computer-Assisted Intervention - MICCAI'98 -

William M. Wells 1998-10-02

This book constitutes the refereed proceedings of the First International Conference on Medical Image Computing and Computer-Assisted Intervention, MICCAI'98, held in Cambridge, MA, USA, in October 1998. The 134 revised papers presented were carefully selected from a total of 243 submissions. The book is divided into topical sections on surgical planning, surgical navigation and measurements, cardiac image analysis, medical robotic systems, surgical systems and simulators, segmentation, computational neuroanatomy, biomechanics,

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detection in medical images, data acquisition and processing, neurosurgery and neuroscience, shape analysis, feature extraction, registration, and ultrasound.

### **Logic-Based Program Synthesis and Transformation**

- Pierre Flener 2003-05-21

This book presents the thoroughly refereed post-workshop proceedings of the 8th International Workshop on Logic-Based Program Synthesis and Transformation, LOPSTR'98 held in Manchester, UK in June 1998. The 16 revised full papers presented were carefully reviewed and selected during three rounds of inspection from a total of initially 36 extended abstracts submitted. Also included are eight short papers. Among the topics covered are logic specification, mathematical program construction, logic programming, computational logics, inductive program synthesis, constraint logic programs, and mathematical foundations.

### Empirical Research for Software Security - Lotfi ben Othmane 2017-11-28

Developing secure software requires the integration of numerous methods and tools into the development process, and software design is based on shared expert knowledge, claims, and opinions. Empirical methods, including data analytics, allow extracting knowledge and insights from the data that organizations collect from their processes and tools, and from the opinions of the experts who practice these processes and methods. This book introduces the reader to the fundamentals of empirical research methods, and demonstrates how these methods can be used to hone a secure software development lifecycle based on empirical data and published best practices.

### **Irish Women in Religious Orders, 1530-1700** - Bronagh Ann McShane 2022-10-18

This book investigates the impact of the dissolution of the monasteries on women religious and examines their

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survival in the following decades, showing how, despite the state's official proscription of vocation living, religious vocation options for women continued in less formal ways. McShane explores the experiences of Irish women who travelled to the Continent in pursuit of formal religious vocational formation, covering both those accommodated in English and European continental convents' and those in the Irish convents established in Spanish Flanders and the Iberian Peninsula. Further, this book discusses the revival of religious establishments for women in Ireland from 1629 and outlines the links between these new convents and the Irish foundations abroad. Overall, this study provides a rich picture of Irish women religious during a period of unprecedented change and upheaval.

**Functional Approaches to Culture and Translation -**

Dirk Delabastita 2006-10-31

This volume contains a generous selection of articles

on translation by Professor José Lambert (K.U. Leuven). It traces the intellectual itinerary of their author, who started out as a French and Comparative Literature scholar some four decades ago trying to get a better grip on the problem of inter-literary contacts, and who soon became a key figure in the emergent discipline of Translation Studies, where he is widely known as an indefatigable promoter of descriptively oriented research. This collection shows how José Lambert has never stopped asking new questions about the crucial but often hidden role of language and translation in the world of today. It includes some of the author's classic papers as well as a few lesser known ones that deserve wider circulation. The editors' introduction and the bibliography complete this thought-provoking survey of the career of one of the most creative researchers in the field.

Hyperbolic Problems: Theory, Numerics, Applications - Sylvie Benzoni-Gavage 2008-01-12

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This volume contains papers that were presented at HYP2006, the eleventh international Conference on Hyperbolic Problems: Theory, Numerics and Applications. This biennial series of conferences has become one of the most important international events in Applied Mathematics. As computers became more and more powerful, the interplay between theory, modeling, and numerical algorithms gained considerable impact, and the scope of HYP conferences expanded accordingly.

**Moroccan Migration in Belgium** - Christiane Timmerman 2017-10-26  
First volume in the new series CeMIS Migration and Intercultural Studies  
Moroccans are one of the largest and most debated migrant groups in Belgium. Moroccan Migration in Belgium analyses diverse facets of this community from a multidisciplinary perspective and addresses the most relevant and some underexposed topics in the

rapidly developing field of migration studies. Combining various academic disciplines and different research methods, the book offers a panoramic introspection into the dynamic nature of migration studies in general and Moroccan studies in particular. The contributions of established academics and young researchers will not only appeal to scientific peers working on this domain, but also to teachers, social workers, policy advisors and other interested people who work from close or afar with this minority group.

Contributors Chaïma Ahaddour (KU Leuven), Goedele Baeke (KU Leuven), Anna Berbers (University of Amsterdam), Bert Broeckaert (KU Leuven), Frank Caestecker (Ghent University), Noel Clycq (University of Antwerp), Sam De Schutter (Leiden University), Leen d'Haenens (KU Leuven), Emilien Dupont (Ghent University), Karim Ettourki (KADOC-KU Leuven), Nadia Fadil (KU Leuven), Idesbald Goddeeris (KU

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**Design for the Unexpected -**

Paul Valckenaers 2015-11-19  
Design for the Unexpected:  
From Holonic Manufacturing  
Systems Towards a Humane  
Mechatronics Society presents  
new, even revolutionary, ideas  
to managing production and

production systems which may fundamentally shift the paradigm of manufacturing systems design. It provides guidelines for the design of complex systems that can deal with unexpected disturbances and presents a decentralized control methodology that goes far beyond the traditional hierarchical control approach that currently prevails. The benefits are illustrated by a variety of examples and case studies from different fields, with the book's well-established authors presenting Holonic Manufacturing Systems (HMS) as the framework for the 'factory-of-the-future', and suggesting that the application of biologically inspired control paradigms can control complex manufacturing systems, and that there are far wider applications for these systems than pure manufacturing. In addition, the book explores how this multi-agent control framework can be extended to other fields such as traffic, transport, services, and health care.

Provides a practical control

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system architecture that can be applied to a wide variety of systems in manufacturing, transportation, logistics, and robotics Contains a wide range of case studies from different engineering disciplines Provides a decentralized control methodology that goes beyond the traditional hierarchical control approach that currently prevails A must-read resource for researchers and professionals alike

*Parasite Diversity and Diversification* - Serge Morand  
2015-02-26

The development of molecular tools has dramatically increased our knowledge of parasite diversity and the vectors that transmit them. From viruses and protists to arthropods and helminths, each branch of the Tree of Life offers an insight into significant, yet cryptic, biodiversity. Alongside this, the studies of host-parasite interactions and parasitism have influenced many scientific disciplines, such as biogeography and evolutionary ecology, by using comparative

methods based on phylogenetic information to unravel shared evolutionary histories. *Parasite Diversity and Diversification* brings together two active fields of research, phylogenetics and evolutionary ecology, to reveal and explain the patterns of parasite diversity and the diversification of their hosts. This book will encourage students and researchers in the fields of ecology and evolution of parasitism, as well as animal and human health, to integrate phylogenetics into the investigation of parasitism in evolutionary ecology, health ecology, medicine and conservation.

**Building Physics - Heat, Air and Moisture** - Hugo S. L.

Hens 2017-10-16

Bad experiences with construction quality, the energy crises of 1973 and 1979, complaints about "sick buildings", thermal, acoustical, visual and olfactory discomfort, the need for good air quality, the move towards more sustainability - all these have accelerated the development of

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a field that, for a long time, was hardly more than an academic exercise: building physics (in English speaking countries sometimes referred to as building science). The discipline embraces domains such as heat and mass transfer, building acoustics, lighting, indoor environmental quality and energy efficiency. In some countries, fire safety is also included. Through the application of physical knowledge and its combination with information coming from other disciplines, the field helps to understand the physical phenomena governing building parts, building envelope, whole buildings and built environment performance, although for the

last the wording "urban physics" is used. Today, building physics has become a key player on the road to a performance based building design. The book deals with the description, analysis and modeling of heat, air and moisture transport in building assemblies and whole buildings with main emphasis on the building engineering applications, including examples. The physical transport processes determine the performance of the building envelope and may influence the serviceability of the structure and the whole building. Compared to the second edition, in this third edition the text has partially been revised and extended.