

Sorin S5 User Manual

Established as the standard reference on cardiopulmonary bypass, Dr. Gravlee's text is now in its Third Edition. This comprehensive, multidisciplinary text covers all aspects of cardiopulmonary bypass including sections on equipment, physiology and pathology, hematologic aspects, and clinical applications. This edition features a new section on cardiopulmonary bypass in neonates, infants, and children and a new chapter on circulatory support for minimally invasive cardiac surgery. Other highlights include state-of-the-art information on low-volume circuits and other new equipment and discussions of outcomes data for on-

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pump and off-pump surgeries. This book discusses how biological molecules exert their function and regulate biological processes, with a clear focus on how conformational dynamics of proteins are critical in this respect. In the last decade, the advancements in computational biology, nuclear magnetic resonance including paramagnetic relaxation enhancement, and fluorescence-based ensemble/single-molecule techniques have shown that biological molecules (proteins, DNAs and RNAs) fluctuate under equilibrium conditions. The conformational and energetic spaces that these fluctuations explore likely contain active conformations that are critical for their function. More interestingly, these fluctuations can respond actively to external cues, which introduces layers of tight

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regulation on the biological processes that they dictate. A growing number of studies have suggested that conformational dynamics of proteins govern their role in regulating biological functions, examples of this regulation can be found in signal transduction, molecular recognition, apoptosis, protein / ion / other molecules translocation and gene expression. On the experimental side, the technical advances have offered deep insights into the conformational motions of a number of proteins. These studies greatly enrich our knowledge of the interplay between structure and function. On the theoretical side, novel approaches and detailed computational simulations have provided powerful tools in the study of enzyme catalysis, protein / drug design, protein / ion / other

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molecule translocation and protein folding/aggregation, to name but a few. This work contains detailed information, not only on the conformational motions of biological systems, but also on the potential governing forces of conformational dynamics (transient interactions, chemical and physical origins, thermodynamic properties). New developments in computational simulations will greatly enhance our understanding of how these molecules function in various biological events. Program synthesis is the task of automatically finding a program in the underlying programming language that satisfies the user intent expressed in the form of some specification. Since the inception of artificial intelligence in the 1950s, this problem has been considered the holy grail of Computer

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Science. Despite inherent challenges in the problem such as ambiguity of user intent and a typically enormous search space of programs, the field of program synthesis has developed many different techniques that enable program synthesis in different real-life application domains. It is now used successfully in software engineering, biological discovery, compute-raided education, end-user programming, and data cleaning. In the last decade, several applications of synthesis in the field of programming by examples have been deployed in mass-market industrial products. This monograph is a general overview of the state-of-the-art approaches to program synthesis, its applications, and subfields. It discusses the general principles common to all modern synthesis approaches such as syntactic bias,

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oracle-guided inductive search, and optimization techniques. We then present a literature review covering the four most common state-of-the-art techniques in program synthesis: enumerative search, constraint solving, stochastic search, and deduction-based programming by examples. It concludes with a brief list of future horizons for the field.

Springer Handbook of Medical Technology

Saving Energy, Water and Resources

Elias Canetti's and Franz Baermann

Steiner's Responses to the Shoah

Comparative Studies in Romance

Medizintechnik

Process Integration and Intensification

This book presents algorithmic tools for algebraic geometry, with experimental

applications. It also introduces Macaulay 2, a computer algebra system supporting research in algebraic geometry, commutative algebra, and their applications. The algorithmic tools presented here are designed to serve readers wishing to bring such tools to bear on their own problems. The first part of the book covers Macaulay 2 using concrete applications; the second emphasizes details of the mathematics. An excellent reference for anyone needing to examine properties of harmonic vector

fields to help them solve research problems. The book provides the main results of harmonic vector fields with an emphasis on Riemannian manifolds using past and existing problems to assist you in analyzing and furnishing your own conclusion for further research. It emphasizes a combination of theoretical development with practical applications for a solid treatment of the subject useful to those new to research using differential geometric methods in extensive detail. A useful tool for any scientist

conducting research in the field of harmonic analysis Provides applications and modern techniques to problem solving A clear and concise exposition of differential geometry of harmonic vector fields on Reimannian manifolds Physical Applications of Geometric Methods

Turbo Code Applications: a journey from a paper to realization presents c-temporary applications of turbo codes in thirteen technical chapters. Each chapter focuses on a particular communication

technology utilizing turbo codes, and they are written by experts who have been working in related th areas from around the world. This book is published to celebrate the 10 year anniversary of turbo codes invention by Claude Berrou Alain Glavieux and Punya Thitimajshima (1993-2003). As known for more than a decade, turbo code is the astonishing error control coding scheme which its perf- mance closes to the Shannon's limit. It has been honored consequently as one of the seventeen great innovations during the ?rst

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fty years of information theory foundation. With the amazing performance compared to that of other existing codes, turbo codes have been adopted into many communication s- tems and incorporated with various modern industrial standards. Numerous research works have been reported from universities and advance companies worldwide. Evidently, it has successfully revolutionized the digital commu- cations. Turbo code and its successors have been applied in most communications startingfromt

he ground or terrestrial systems of data storage, ADSL modem, and fiber optic communications.

Subsequently, it moves up to the air channel applications by employing to wireless communication systems, and then moves up to the space by using in digital video broadcasting and satellite communications. Undoubtedly, with the excellent error correction potential, it has been selected to support data transmission in space exploring system as well.

Weekly series

Research in Computational

Molecular Biology
Geometry of Cauchy-Riemann
Submanifolds
Hearings and Reports on
Atomic Energy
Taxation's Income-tax Rules,
1962
Protein Conformational
Dynamics

Covers receipts and expenditures of appropriations and other funds. Offering a unique, multidisciplinary approach to the complexities of CPB, the 4th Edition of *Cardiopulmonary Bypass and Mechanical Support: Principles & Practice* remains the gold standard in the field. This edition brings you fully up to date with every aspect of

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cardiopulmonary bypass, including new information on management of pediatric patients, CPB's role with minimally invasive and robotic cardiac surgery, mechanical circulatory support, miniaturized circuits and CPB, sickle cell disease and CPB management, and much more. A newly expanded title reflects the rapidly evolving nature of extracorporeal technology, encompassing both short-term and long-term forms of cardiac and pulmonary support.

The architecture of the human language faculty has been one of the main foci of the linguistic research of the last half century. This branch of linguistics, broadly known as

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Generative Grammar, is concerned with the formulation of explanatory formal accounts of linguistic phenomena with the ulterior goal of gaining insight into the properties of the 'language organ'. The series comprises high quality monographs and collected volumes that address such issues. The topics in this series range from phonology to semantics, from syntax to information structure, from mathematical linguistics to studies of the lexicon.

Radio-electronics

Constructive Side-Channel Analysis
and Secure Design

Hearings ... Eighty-eighth Congress,
First Session ... Pursuant to Section
202 of the Atomic Energy Act of

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1954

Computations in Algebraic
Geometry with Macaulay 2

Cardiac Surgery

QST.

This book gathers contributions by respected experts on the theory of isometric immersions between Riemannian manifolds, and focuses on the geometry of CR structures on submanifolds in Hermitian manifolds. CR structures are a bundle theoretic recast of the tangential Cauchy–Riemann equations in complex analysis involving several complex variables. The book covers a wide range of topics such as Sasakian geometry, Kaehler and locally conformal

Kaehler geometry, the tangential CR equations, Lorentzian geometry, holomorphic statistical manifolds, and paraquaternionic CR submanifolds. Intended as a tribute to Professor Aurel Bejancu, who discovered the notion of a CR submanifold of a Hermitian manifold in 1978, the book provides an up-to-date overview of several topics in the geometry of CR submanifolds. Presenting detailed information on the most recent advances in the area, it represents a useful resource for mathematicians and physicists alike.

Moderne Medizin kommt ohne Technik nicht mehr aus. Dieses erfolgreiche Standardwerk bietet

*den umfassenden,
praxisorientierten Querschnitt zum
neuesten Stand der Medizintechnik.
Im allgemeinen Teil: Hygiene,
ökonomische Aspekte,
Qualitätsmanagement. Im speziellen
Teil: Funktionsdiagnostik,
bildgebende Systeme,
Therapiegeräte. Deutlich erweitert
um 16 zusätzliche Kapitel u.a. zu
Audiometrie, medizinischer
Strahlentherapie, Infusionstechnik.
Inklusive neuester Entwicklungen
(z.B. Kapselendoskopie). Im
umfangreichen Anhang:
Zusatzinformationen, Abbildungen,
Tabellen, Übersichten. Vorzüglich
geeignet als Nachschlagewerk,
Ratgeber und Arbeitsbuch.*

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Within a healthcare enterprise, patient vital signs and other automated measurements are communicated from connected medical devices to end-point systems, such as electronic health records, data warehouses and standalone clinical information systems. Connected Medical Devices: Integrating Patient Care Data in Healthcare Systems explores how medical Analysis and Optimisation The Official Guide of the Railways and Steam Navigation Lines of the United States, Porto Rico, Canada, Mexico and Cuba Development, Growth, and State of the Atomic Energy Industry

Harmonic Vector Fields

Perpetual Trouble Shooter's

Manual

Principles and Practice

This practical how-to-do book deals with the design of sustainable chemical processes by means of systematic methods aided by computer simulation. Ample case studies illustrate generic creative issues, as well as the efficient use of simulation techniques, with each one standing for an important issue taken from practice. The didactic approach guides readers from basic knowledge to mastering complex flow-

sheets, starting with chemistry and thermodynamics, via process synthesis, efficient use of energy and waste minimization, right up to plant-wide control and process dynamics. The simulation results are compared with flow-sheets and performance indices of actual industrial licensed processes, while the complete input data for all the case studies is also provided, allowing readers to reproduce the results with their own simulators. For everyone interested in the design of innovative chemical processes.

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Still the #1 resource for today's pediatric ICU teams, Pediatric Critical Care, 5th Edition covers the entire field, from basic science to cutting-edge clinical applications. Drs. Bradley P. Fuhrman and Jerry J. Zimmerman, accompanied by an expert team of editors and contributors from around the world, bring you today's best information on the current and future landscape of pediatric critical care so you can consistently deliver optimum care to your young patients. Boasts highly readable, concise chapters with hundreds of useful

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photos, diagrams, algorithms, and clinical pearls. Clear, logical, organ-system approach allows you to focus on the development, function, and treatment of a wide range of disease entities. Includes new content on the expanding use of ultrasound at the bedside and the increase in nursing responsibilities in the PICU. Eighteen new chapters cover topics such as delirium, metabolism, endocrinology, nutrition, nursing, and much more. Features expanded and updated information on critical communication, professionalism, long-term

outcomes, palliative care, ultrasonography, PCCM in resource-limited settings, ventilator-induced lung injury, non-invasive ventilation, updated CNS pathophysiology, the ‘Erythron’, and immunity and infection.

This book constitutes the refereed proceedings of the Third International Workshop on Constructive Side-Channel Analysis and Secure Design, COSADE 2012, held in Darmstadt, Germany, May 2012. The 16 revised full papers presented together with two invited talks were

**carefully reviewed and
selected from 49 submissions.**

**The papers are organized in
topical sections on practical
side-channel analysis; secure
design; side-channel attacks
on RSA; fault attacks; side-
channel attacks on ECC;
different methods in side-
channel analysis.**

**Integrated Design and
Simulation of Chemical
Processes**

**Anthropology as Memory
Delivering Quality Health
Services: A Global Imperative
Variational Principles and
Differential Geometry
The Arterial Switch Operation**

Official Gazette of the United States Patent and Trademark Office

This concise, user-oriented and up-to-date desk reference offers a broad introduction to the fascinating world of medical technology, fully considering today's progress and further development in all relevant fields. The Springer Handbook of Medical Technology is a systemized and well-structured guideline which distinguishes itself through simplification and condensation of complex facts. This book is an indispensable resource for professionals working directly or indirectly with medical systems and appliances every day. It is also meant for graduate and post graduate students in hospital management, medical engineering, and medical physics. This text describes and illustrates with

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some 700 detailed anatomic and surgical drawings the whole spectrum of surgical procedures employed to treat acquired and congenital diseases of the heart and great vessels in adults and children. A rather traditional chapter on history of cardiac surgery precedes chapters dedicated to quality improvement, followed by ICU management in adult and pediatric cardiac surgery, and techniques of extracorporeal circulation in both age groups. Further special topics are cardiovascular tissue engineering, minimally invasive cardiac surgery, endovascular treatment of aortic diseases, and cardiac assist devices, including total artificial heart. Written by 71 internationally recognized experts from 40 cardiac units in Central Europe and North America, this book will be invaluable not only for both novice and experienced surgeons, but also for all physicians, nurses, and technicians caring

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for patients with heart disease of any type, at any age.

The aim of the book is to collect and make available to the public recent studies on Roumanian in the framework of Generative Grammar. All the studies can be considered as highly advanced from both the empirical and the theoretical point of view. In fact, they deal with many of the phenomena that differentiate this language from other well-studied ones, adopting and further improving recent developments in linguistic theory. In this respect the book contributes both to Roumanian studies and to theoretical linguistics. These studies cover major areas of general syntactic investigation: the syntax of nominal expressions (Giusti on determiners, Grosu on free relative clauses), clausal structure (Motapanyane), clitic placement (Dobrovie-Sorin), and morpho-semantics (Farka? and Zec). In so

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doing, they address the problems of the definition and refinement of the theory of functional projections, contributing new ideas and evidence for their formulation.

Daily Weather Maps

Trademarks

9th Annual International Conference,
RECOMB 2005, Cambridge, MA, USA,
May 14-18, 2005, Proceedings

The Hardware/Software Interface, Third
Edition

Real-Time Applications with Stochastic
Task Execution Times

Turbo Code Applications

Whereas many other post-
Holocaust Jewish thinkers -
including Derrida - have
concentrated on a refusal of
totality and celebration of
'otherness', the poet and
intellectual Franz Baermann

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Steiner (1909-1952) combines this emphasis with an equal stress on the 'need' for certain collectively acknowledged limits. Next to the wider significance of this book for discussions of Holocaust studies in relation to current theoretical and social issues, it will also offer a new interpretation of Elias Canetti's work. This is the first detailed examination of Steiner's anthropology and philosophy and its relation to the work of his close intellectual friend Canetti. This volume contains the papers presented at the 9th

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Annual International Conference on Research in Computational Molecular Biology (RECOMB 2005), which was held in Cambridge, Massachusetts, on May 14 – 18, 2005. The RECOMB conference series was started in 1997 by Sorin Istrail, Pavel Pevzner and Michael Waterman. The list of previous meetings is shown below in the section “ Previous RECOMB Meetings. ”

RECOMB 2005 was hosted by the Broad Institute of MIT and Harvard, and Boston University ’ s Center for Advanced - nomic

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Technology, and was excellently organized by the Organizing Committee Co-chairs Jill Mesirov and Simon Kasif. This year, 217 papers were submitted, of which the Program Committee - lected 39 for presentation at the meeting and inclusion in this proceedings. Each submission was refereed by at least three members of the Program Committee. After the completion of the referees ' reports, an extensive Web-based discussion took place for making decisions. From RECOMB 2005, the Steering

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Committee decided to publish the proceedings as a volume of Lecture Notes in Bioinformatics (LNBI) for which the founders of RECOMB are also the editors. The prominent volume number LNBI 3500 was assigned to this proceedings. The RECOMB conference series is closely associated with the Journal of Computational Biology which traditionally publishes special issues devoted to presenting full versions of selected conference papers. The RECOMB Program Committee consisted of 42 members, as listed on a separate page.

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I would like to thank the
RECOMB 2005 Program
Committee members for their
dedication and hard work.
Medizintechnik Verfahren -
Systeme - Informationsverarb
eitung Springer-Verlag
a Journey from a Paper to
realization
Cardiopulmonary Bypass and
Mechanical Support
Critical Appraisal for FCEM
Pediatric Critical Care E-Book
Connected Medical Devices
Statement of Disbursements
of the House as Compiled by
the Chief Administrative
Officer from ...
This comprehensive work shows

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how to design and develop innovative, optimal and sustainable chemical processes by applying the principles of process systems engineering, leading to integrated sustainable processes with 'green' attributes. Generic systematic methods are employed, supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models. New to the second edition are chapters on product design and batch processes with applications in specialty chemicals, process intensification methods for designing compact equipment

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with high energetic efficiency, plantwide control for managing the key factors affecting the plant dynamics and operation, health, safety and environment issues, as well as sustainability analysis for achieving high environmental performance. All chapters are completely rewritten or have been revised. This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students, being compatible with academic requirements world-wide. The inclusion of the newest design methods will be of great value to professional chemical engineers. Systematic

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approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis, creation and assessment Emphasis on sustainable development for the future of process industries

This report describes the current situation with regard to universal health coverage and global quality of care, and outlines the steps governments, health services and their workers, together with citizens and patients need to urgently take. "The authors have provided all the elements required for complete understanding of the

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basic concepts in heat recovery and water minimization in chemical and related processes, and followed these with carefully selected and developed problems and solutions in order to ensure that the concepts delivered can be applied." Simon Perry, The University of Manchester. This graduate textbook covers fundamentals of the key areas of Process Integration and Intensification for intra-process heat recovery (Heat Integration), inter-process heat recovery and cogeneration (Total Site) as well as water conservation. Step by step working sessions are illustrated

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for deeper understanding of the taught materials. The textbook also provides a wealth of pointers as well as further information for readers to acquire more extensive materials on the diverse industrial applications and the latest development trends in Process Integration and Intensification. It is addressed to graduate students as well as professionals to help the effectively application of Process Integration and Intensification in plant design and operation.

Integrating Patient Care Data in Healthcare Systems

The Syntax of Romanian

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Verfahren - Systeme -
Informationsverarbeitung
Operations on the Heart and
Great Vessels in Adults and
Children
Alongwith Investment Deposit
Account Scheme, 1986,
Certificate Proceedings Rules,
1962, Settlement Commission
(Procedure) Rules, 1987, Income-
tax (Appellate Tribunal) Rules,
1963, Capital Gains Accounts
Scheme, 1988, National Savings
Scheme Rules, 1992

***The ability to read a
paper, judge its quality,
the importance of its
results, and make a
decision about whether to***

change practice based on the information given, is a core skill for all doctors. To be able to do this quickly and efficiently is, without a doubt, a skill needed by all time-pressured emergency doctors and one which is tested in the Fellowship of the College of Emergency Medicine (FCEM) examination. Critical Appraisal for FCEM is the essential revision source for all those who want to pass the critical appraisal section of this exam. It is

also required reading for those who want to incorporate evidence-based medicine into their everyday clinical practice. Features: Helps you become truly competent in critical appraisal Provides information in "Spod's Corner," which helps you reach the next level and excel Prepares you for the Critical Topic Review Contains two fictional practice papers to test and practise your knowledge With its relaxed conversational style—yet crammed with

essential information, key tips, and advice—this book is indispensable for all those wanting to achieve success in their FCEM and MCEM examinations.

The title of this book is no surprise for people working in the field of Analytical Mechanics. However, the geometric concepts of Lagrange space and Hamilton space are completely new. The geometry of Lagrange spaces, introduced and studied in [76],[96], was extensively examined in

the last two decades by geometers and physicists from Canada, Germany, Hungary, Italy, Japan, Romania, Russia and U.S.A. Many international conferences were devoted to debate this subject, proceedings and monographs were published [10], [18], [112], [113],... A large area of applicability of this geometry is suggested by the connections to Biology, Mechanics, and Physics and also by its general setting as a

generalization of Finsler and Riemannian geometries. The concept of Hamilton space, introduced in [105], [101] was intensively studied in [63], [66], [97],... and it has been successful, as a geometric theory of the Hamiltonian function the fundamental entity in Mechanics and Physics. The classical Legendre's duality makes possible a natural connection between Lagrange and - miltonspaces. It reveals new concepts and geometrical objects of

Hamilton spaces that are dual to those which are similar in Lagrange spaces. Following this duality Cartan spaces introduced and studied in [98], [99],..., are, roughly speaking, the Legendre duals of certain Finsler spaces [98], [66], [67]. The above arguments make this monograph a continuation of [106], [113], emphasizing the Hamilton geometry. This best selling text on computer organization has been thoroughly updated to reflect the

newest technologies. Examples highlight the latest processor designs, benchmarking standards, languages and tools. As with previous editions, a MIPS processor is the core used to present the fundamentals of hardware technologies at work in a computer system. The book presents an entire MIPS instruction set—instruction by instruction—the fundamentals of assembly language, computer arithmetic, pipelining, memory hierarchies and

I/O. A new aspect of the third edition is the explicit connection between program performance and CPU performance. The authors show how hardware and software components--such as the specific algorithm, programming language, compiler, ISA and processor implementation--impact program performance. Throughout the book a new feature focusing on program performance describes how to search

for bottlenecks and improve performance in various parts of the system. The book digs deeper into the hardware/software interface, presenting a complete view of the function of the programming language and compiler--crucial for understanding computer organization. A CD provides a toolkit of simulators and compilers along with tutorials for using them. For instructor resources click on the grey "companion

site" button found on the right side of this page. This new edition represents a major revision. New to this edition: * Entire Text has been updated to reflect new technology * 70% new exercises. * Includes a CD loaded with software, projects and exercises to support courses using a number of tools * A new interior design presents defined terms in the margin for quick reference * A new feature, "Understanding Program Performance"

focuses on performance from the programmer's perspective * Two sets of exercises and solutions, "For More Practice" and "In More Depth," are included on the CD * "Check Yourself" questions help students check their understanding of major concepts * "Computers In the Real World" feature illustrates the diversity of uses for information technology *More detail below...

***Reactor development
The Geometry of***

***Hamilton and Lagrange
Spaces
Cardiopulmonary Bypass
Program Synthesis
Advancement in Gene Set
Analysis: Gaining Insight
From High-throughput
Data
Computer Organization
and Design***

This book presents three approaches to the analysis of the deadline miss ratio of applications with stochastic task execution times. Each best fits a different context: an exact one efficiently applicable to

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monoprocessor systems; an approximate one, which allows for designer-controlled trade-off between analysis accuracy and analysis speed; and one less accurate but sufficiently fast in order to be placed inside optimization loops.

*Chemical Process Design
Third International
Workshop, COSADE 2012,
Darmstadt, Germany, May
3-4, 2012. Proceedings
Proceedings of the 1996
U.S. DOE Hydrogen Program
Review, May 1-2, 1996,
Miami, Florida
Advances in Roumanian*

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*Linguistics
Computer-Aided Case
Studies*