

listed in Table 1 and Table 2, along with the conditions regarding spinning time and velocity for each sample in both modes, for velocity and equilibrium sedimentation experiments.

Test cite: (Svedberg and Pedersen, 1940; Mächtle and Börger, 2006; Müller, 1991; van Holde et al., 1998; Lamm, 1929; Schuck, 2000; Claverie et al., 1975; Dishon et al., 1966; Harding et al., 1992; Scott et al., 2005; Solovyova, 2010; ref; Pavlov et al., 2010; Luo and Zhang, 2009; Crothers and Zimm, 1965; Díez et al., 2011; Colfen, 2010)

Table 1 Experimental properties.^a

Molecule	γ -cyclodextrin	Lysozyme	Polyoxyethylene	DNA T7
$1 - v^0 \rho$	0.333	0.298	0.170	0.450
$10^{-3}M$ (g/mol)	1.50	14.3	300	26 000
s (S)	0.53	1.89	2.30	31.8
$10^3 D$ (cm ² /g)	27.0	10.8	1.10	0.066
ω (rpm)	55 000	40 000	40 000	10 000
t_{run} (secs.)	40 000	40 000	40 000	60 000
$10^{-3}M_{conf}$ (g/mol)	1.44 (-4)	13.9 (-3)	300 (0)	23 278 (-10)
s_{conf} (S)	0.54 (+2)	1.84 (-3)	2.26 (-2)	31.4 (-1)
$10^3 D_{conf}$ (cm ² /g)	27.4 (+1)	10.8 (0)	1.08 (-2)	0.073 (+11)

Table 2 Equilibrium experiments.^b

Molecule	γ -cyclodextrin	Lysozyme	Polyoxyethylene
ω (rpm)	30 000	15 000	5 000
t_{run} (secs.)	300 000	500 000	500 000
$10^{-3}M_{conf}$ (g/mol)	1.27 (-16)	12.6(-12)	250.0 (-17)

3 Results and discussion

First of all, we checked that the results from the algorithm with a small number of large time steps, eq. 11 give practically the same results than that with many small steps, eq. 10, thus confirming the efficiency of the former. This was evident in all cases simulated, as shown for example in Figure 2.

In order to evaluate the accuracy of the results for the prediction of sedimentation profiles in the velocity mode, we have compared them with calculations with the well-known SEDFIT software (Schuck, 2000). This tool, which includes a sophisticated Lamm-equation solver has an utility for predicting the concentration profiles. Comparison of our simulated profiles with the SEDFIT predictions resulted in a good agreement, as shown in Figure 2. The determination of concentration profiles has the final purpose of determining the molecular parameters of interest, so the most relevant evaluation of their prediction is the confirmation of whether their analysis provides correct values for those parameters. In order to do so with our simulation results, we employed the analysis tool of SEDFIT as an independent and robust criterion. Indeed, SEDFIT uses a reliable Lamm-equation solver to determine the parameters by means of powerful optimization algorithms. In the single-species mode of SEDFIT, the program provides the values of the molecular weight, M , and

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Evolutionary Scheduling Keshav Dahal,Kay Chen Tan,Peter I. Cowling,2007-02-15 Evolutionary scheduling is a vital research domain at the interface of artificial intelligence and operational research This edited book gives an overview of many of the current developments in the large and growing field of evolutionary scheduling It demonstrates the applicability of evolutionary computational techniques to solve scheduling problems not only to small scale test problems but also fully fledged real world problems

Adaptive Control of Bio-Inspired Manufacturing Systems Dunbing Tang,Kun Zheng,Wenbin Gu,2020-02-27 This book introduces state of the art models and methods based on the neuroendocrine immune inspired approaches in the field of manufacturing control systems It develops various bio inspired intelligent approaches for multiple applications in order to efficiently generate production plans and control solutions and agilely deal with the frequent unexpected disturbances at the shop floor level It also provides an introduction to bio inspired manufacturing systems with intelligent control structures and the latest technologies Further the book describes recent advances in the bio inspired methodology for a high level adaptability in manufacturing systems including the bio inspired control architecture and the implementation of intelligent and adaptive control approaches based on neuroendocrine immune mechanisms and hormone regulation principles It offers a valuable resource for graduate students researchers and engineers in the fields of production management manufacturing system control and related areas div

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the various views on the contributions of mechatronics and the techniques for machine layout optimization in manufacturing and automation systems These topics are followed by discussions of the application of a real time control system to address issues of safety productivity advances and production cost reductions Other chapters consider the influence of human supervisory control of predominantly automated manufacturing processes and the techniques for the manufacturing systems integration The final chapter examines the major importance of the assembly line balancing to manufacturing systems This book is of great value to process and mechanical engineers as well as process control workers and researchers

Information Computing And Automation (In 3 Volumes) - Proceedings Of The International Conference Jian Ping Li,Igor Bloshanskii,Lionel M Ni,S S Pandey,Simon X Yang,2008-04-25 Wavelet analysis and its applications have become one of the fastest growing research areas in the past several years Wavelet theory has been employed in many fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and endless other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book consists of carefully selected and received papers presented at the conference and is an attempt to capture the essence of the current state of the art in wavelet analysis and active media technology Invited papers included in this proceedings includes contributions from Prof P Zhang T D Bui and C Y Suen from Concordia University Canada Prof N A Strelkov and V L Dol nikov from Yaroslavl State University Russia Prof Chin Chen Chang and Ching Yun Chang from Taiwan Prof S S Pandey from R D University India and Prof I L Bloshanskii from Moscow State Regional University Russia

Deadlock Resolution in Automated Manufacturing Systems ZhiWu Li,MengChu Zhou,2009-03-04 Deadlock problems in flexible manufacturing systems FMS have received more and more attention in the last two decades Petri nets are one of the more promising mathematical tools for tackling deadlocks in various resource allocation systems In a system modeled with Petri nets siphons are tied to the occurrence of deadlock states as a structural object The book systematically introduces the novel theory of siphons traps and elementary siphons of Petri nets as well as the deadlock control strategies for FMS developed from it Deadlock prevention methods are examined comparatively The many FMS examples presented to demonstrate the concepts and results of this book range from the simple to the complex Importantly to inspire and motive the reader s interest in further research a number of interesting and open problems in this area are proposed at the end of each chapter

Logistics Systems: Design and Optimization Andre Langevin,Diane Riopel,2005-03-25 In a context of global competition the optimization of logistics systems is inescapable Logistics Systems Design and Optimization falls within this perspective and presents twelve chapters that well illustrate the variety and the complexity of logistics activities Each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics The first chapter by Riopel Langevin and Campbell develops a framework for the entire book It classifies logistics decisions and highlights the relevant linkages to

logistics decisions The intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities Each of the chapters focus on quantitative methods for the design and optimization of logistics systems **Computer-Aided Design, Engineering, and Manufacturing** Cornelius T.

Leondes,2000-12-12 In the competitive business arena companies must continually strive to create new and better products faster more efficiently and more cost effectively than their competitors to gain and keep the competitive advantage Computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM are now the industry standa

Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior Rigatos, Gerasimos,2010-06-30 In recent years there has been growing interest in industrial systems especially in robotic manipulators and mobile robot systems As the cost of robots goes down and become more compact the number of industrial applications of robotic systems increases Moreover there is need to design industrial systems with intelligence autonomous decision making capabilities and self diagnosing properties Intelligent Industrial Systems Modeling Automation and Adaptive Behavior analyzes current trends in industrial systems design such as intelligent industrial and mobile robotics complex electromechanical systems fault diagnosis and avoidance of critical conditions optimization and adaptive behavior This book discusses examples from major areas of research for engineers and researchers providing an extensive background on robotics and industrial systems with intelligence autonomy and adaptive behavior giving emphasis to industrial systems design *Container Terminals and*

Automated Transport Systems Hans-Otto Günther,Kap Hwan Kim,2014-07-08 Container transportation is the predominant mode of inter continental cargo traffic Since container ships and port terminals involve a huge capital investment and significant daily operating costs it is of crucial importance to efficiently utilize the internal resources of container terminals and transportation systems Today there is an ongoing trend to use automated container handling and transportation technology in particular in countries with high labour costs This in turn requires highly sophisticated control strategies in order to meet the desired performance measures The primary objective of this book is to reflect these recent developments and to present new insights and successful solutions to operational problems of automated container terminals and transportation systems It comprises reports on the state of the art applications of quantitative methods as well as case studies and simulation results Its contributions are written by leading experts from academia and business The book addresses practitioners as well as academic researchers in logistics transportation and management **Gcmm 2004** Prasad

K. D. V. Yarlagadda,S. Narayanan,2005 Presents research and case studies from over 200 Manufacturing Professionals across the globe in the area of Manufacturing Process Materials Metrology Finite Element Methods Industrial Engineering Optimization Quality and Supply Chain Management *Sustainable Automated Production Systems* Hamed Fazlollahtabar,2024-06-26 Due to disruptions occurring within production processes as a result of different circumstances it is necessary to provide a new and safe production system that can be resilient to cope with any crisis such as a pandemic

New sustainable automated production systems need to be proposed and adopted by industrial managers and this book fulfills that need Sustainable Automated Production Systems Industry 4 0 Models and Techniques includes the modern technologies of Industry 4 0 and discusses automated systems robotic production sustainable automation production process automation and the use of IoT in production It goes over the circular economy and automated production processes and presents theories and practices associated with mathematical models of process automation in sustainable production The book also investigates how sustainability in automated production systems using the IoT can present unique circumstances when pandemics or other disruptions are involved The book includes chapters presenting sustainable production models and automated production using Industry 4 0 technologies and is targeted to help both practitioners and academics

Autonomous Guided Vehicles Hamed Fazlollahtabar, Mohammad Saidi-Mehrabad, 2015-01-21 This book provides readers with extensive information on path planning optimization for both single and multiple Autonomous Guided Vehicles AGVs and discusses practical issues involved in advanced industrial applications of AGVs After discussing previously published research in the field and highlighting the current gaps it introduces new models developed by the authors with the goal of reducing costs and increasing productivity and effectiveness in the manufacturing industry The new models address the increasing complexity of manufacturing networks due for example to the adoption of flexible manufacturing systems that involve automated material handling systems robots numerically controlled machine tools and automated inspection stations while also considering the uncertainty and stochastic nature of automated equipment such as AGVs The book discusses and provides solutions to important issues concerning the use of AGVs in the manufacturing industry including material flow optimization with AGVs programming manufacturing systems equipped with AGVs reliability models the reliability of AGVs routing under uncertainty and risks involved in AGV based transportation The clear style and straightforward descriptions of problems and their solutions make the book an excellent resource for graduate students Moreover thanks to its practice oriented approach the novelty of the findings and the contemporary topic it reports on the book offers new stimulus for researchers and practitioners in the broad field of production engineering *Manufacturing, Modelling, Management and Control 2004*

George Chryssolouris, D Mourtzis, 2006-02-03 Travel Time Models and Throughput Analysis of Dual Load

Handling Automated Storage and Retrieval Systems in Double Deep Storage Doerr, Katharina, 2018-08-16 A general analytical travel time model for the quadruple command cycle in double deep storage systems with a dual capacity load handling device is formulated and validated by means of a simulation model Various routing and sequencing strategies are composed A simulation model is used to compare strategies for different AS RS configurations and settings to assess them in consideration of real world cases For selected strategies analytical formulations are derived **Production Planning and Scheduling in Flexible Assembly Systems**

Tadeusz Sawik, 2012-12-06 The book familiarizes the reader with the flexible assembly systems planning and scheduling issues and various operations research modelling and solution approaches Some

of the many topic highlights presented are the overall structure and components of a flexible assembly system bi objective integer programming models and algorithms for machine loading assembly routing and assembly plan selection and fast combinatorial heuristics for scheduling flexible assembly lines with limited intermediate buffers Also the book deals with just in time scheduling of flexible assembly lines and dynamic dispatching algorithms for simultaneous scheduling of assembly stations and automated guided vehicles

Sustainable Production Through Advanced Manufacturing, Intelligent Automation and Work Integrated Learning J. Andersson,S. Joshi,L. Malmsköld,2024-05-07 Collaboration between those working in product development and production is essential for successful product realization The Swedish Production Academy SPA was founded in 2006 with the aim of driving and developing production research and higher education in Sweden and increasing national cooperation in research and education within the area of production This book presents the proceedings of SPS2024 the 11th Swedish Production Symposium held from 23 to 26 April 2024 in Trollhättan Sweden The conference provided a platform for SPA members as well as for professionals from industry and academia interested in production research and education from around the world to share insights and ideas The title and overarching theme of SPS2024 was Sustainable Production through Advanced Manufacturing Intelligent Automation and Work Integrated Learning and the conference emphasized stakeholder value the societal role of industry worker wellbeing and environmental sustainability in alignment with the European Commission's vision for the future of manufacturing The 59 papers included here were accepted for publication and presentation at the symposium after a thorough review process They are divided into 6 sections reflecting the thematic areas of the conference which were sustainable manufacturing smart production and automation digitalization for efficient product realization circular production industrial transformation for sustainability and the integration of education and research Highlighting the latest developments and advances in automation and sustainable production the book will be of interest to all those working in the field

Design and Operation of Automated Container Storage Systems Nils Kemme,2012-11-07 The storage yard is the operational and geographical centre of most seaport container terminals Therefore it is of particular importance for the whole terminal system and plays a major role for trade and transport flows One of the latest trends in container storage operations is the automated Rail Mounted Gantry Crane system which offers dense stacking and offers low labour costs This book investigates whether the operational performance of container terminals is influenced by the design of these storage systems and to what extent the performance is affected by the terminal's framework conditions and discusses the strategies applied for container stacking and crane scheduling A detailed simulation model is presented to compare the performance effects of alternative storage designs innovative planning strategies and other influencing factors The results have useful implications future research practical terminal planning and optimisation

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Sustainable Production Automation Jingshan Li,Bengt Lennartson,Ying (Gina) Tang,Stephan Biller,Andrea Matta,2017-01-12 Sustainable production automation as an effective way to enable and expedite transitions to sustainability and enhance resource utilizations attracts substantial efforts from researchers in both academy and industry This book presents the recent development of innovative algorithms models heuristics hardware and software in broad areas of sustainable production systems It focuses on design analysis and management of the processes involved in the product life cycle from design to delivery to return to have the minimal negative impacts on society including environmental economic and social The contributors are experts from both universities and industrial research centers

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