

# Witness Simulation Software

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Proceedings of the 37th International MATADOR Conference Srichand Hinduja 2012-10-09 Presented here are 97 refereed papers given at the 37th MATADOR Conference held at The University of Manchester in July 2012. The MATADOR series of conferences covers the topics of Manufacturing Automation and Systems Technology, Applications, Design, Organisation and Management, and Research. The Proceedings of this Conference contain original papers contributed by researchers from many countries on different continents. The papers cover the principles, techniques and applications in aerospace, automotive, biomedical, energy, consumable goods and process industries. The papers in this volume reflect: the importance of manufacturing to international wealth creation; the emerging fields of micro- and nano-manufacture; the increasing trend towards the fabrication of parts using lasers; the growing demand for precision engineering and part inspection techniques, and the changing trends in manufacturing within a global environment.

**Learning WITNESS Book Two - Manufacturing Performance Edition** Lanner Group Ltd 2013  
Simulation software for business decisions and profitability.

Supply Chain Analytics and Modelling Nicoleta Tipi 2021-04-03 An incredible volume of data is generated at a very high speed within the supply chain and it is necessary to understand, use and effectively apply the knowledge learned from analyzing data using intelligent business models. However, practitioners and students in the field of supply chain management face a number of challenges when dealing with business models and mathematical modelling. Supply Chain Analytics and Modelling presents a range of business analytics models used within the supply chain to help readers develop knowledge on a variety of topics to overcome common issues. Supply Chain Analytics and Modelling covers areas including supply chain planning, single and multi-objective optimization, demand forecasting, product allocations, end-to-end supply chain simulation, vehicle routing and scheduling models. Learning is supported by case studies of specialist software packages for each example. Readers will also be provided with a critical view on how supply chain management performance measurement systems have been developed and supported by reliable and accurate data available in the supply chain. Online resources including lecturer slides are available.

**Computational Statistics and Mathematical Modeling Methods in Intelligent Systems** Radek Silhavy 2019-09-19 This book presents real-world problems and exploratory research in computational statistics, mathematical modeling, artificial intelligence and software engineering in the context of the intelligent systems. This book constitutes the refereed proceedings of the 3rd Computational Methods

in Systems and Software 2019 (CoMeSySo 2019), a groundbreaking online conference that provides an international forum for discussing the latest high-quality research results.

**Productivity Improvement for Furniture Industry by Using Witness Simulation Software** Chun Teck Tee 2010 A furniture industry typically involves a number of stages, including receiving raw materials, cutting, sanding, laminating, shaping, drilling, brushing, assembly, and finishing. The longer of process cycle time, the frequent of machine downtime, and the poor layout of the factory have added to the complexity and challenges of furniture industry. With respect to the project title, Productivity Improvement for Furniture Industry by using WITNESS Simulation Software, Lein Hua Furniture Industry Sdn. Bhd. (LHF) has been selected to be improved. The objective for LHF has always been to achieve better productivity, reduce the processing time, minimize the machine downtime, and meet regulatory requirements. This study focuses on applying simulation method to improve the operations in the LHF industry. Therefore, the project objectives can be briefly explained as to design and improve the floor layout of LHF, analyze the designed layout and select the best solution. The project is started by evaluating and identifying the problems existed in the industry, continued by data collection for the data analysis and proceeds to applying simulation modelling step. Meantime, there are three alternatives for improving productivity are suggested and the best of it to be chosen. By running an experiment on the suggested alternatives to improve the output of chairs, these alternatives are modeled in the WITNESS Simulation software and run for the experimental time of 8 hours. These results are analyzed by Kruskal-Wallis and one way ANOVA test for the best solution selection. The experimented results are then being compared with the Cost-Effectiveness Analysis to determine the most efficient layout that are able to produce high output of chairs with lowest cost. From the findings, the most productivity improvement method is the Alternative 3, which is additional of a Laminating machine and reduction of a Brushing machine, as well as combination of Sanding II and Sanding III process after Drilling process. This approach increases the daily output of chairs from 44 to 46 units and the cost of chair per unit from RM45.53 reduced to RM43.63. Therefore, the objectives of this project have been achieved and the selected alternative will be proposed to the LHF for implementation.

**Simulation Modelling for Business** Andrew Greasley 2017-03-02 Simulation Modelling has been used for many years in the manufacturing sector but has now become a mainstream tool in business situations. This is partly because of the popularity of Business Process Reengineering (BPR) and other process based improvement methods that use simulation to help analyse changes in process design. This text book includes case studies in both manufacturing and service situations to demonstrate the usefulness of the approach. A further reason for the increasing popularity of the technique is the development of business orientated and user-friendly windows-based software. This text provides a guide to the use of ARENA, SIMUL8 and WITNESS simulation software systems which are widely used in industry and available to students. Overall this text provides a practical guide to building and implementing the results from a simulation model. All the steps in a typical simulation study are covered including data collection, input data modelling and experimentation.

Ability of Witness Interactive Simulation Software in Simulating a Real-world Plant Environment Tzyy Jiann See 2006

**New Trends in Intelligent Information and Database Systems** Dariusz Barbuscha 2015-03-22 Intelligent information and database systems are two closely related subfields of modern computer science which have been known for over thirty years. They focus on the integration of artificial intelligence and classic database technologies to create the class of next generation information

systems. The book focuses on new trends in intelligent information and database systems and discusses topics addressed to the foundations and principles of data, information, and knowledge models, methodologies for intelligent information and database systems analysis, design, and implementation, their validation, maintenance and evolution. They cover a broad spectrum of research topics discussed both from the practical and theoretical points of view such as: intelligent information retrieval, natural language processing, semantic web, social networks, machine learning, knowledge discovery, data mining, uncertainty management and reasoning under uncertainty, intelligent optimization techniques in information systems, security in databases systems, and multimedia data analysis. Intelligent information systems and their applications in business, medicine and industry, database systems applications, and intelligent internet systems are also presented and discussed in the book. The book consists of 38 chapters based on original works presented during the 7th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2015) held on 23–25 March 2015 in Bali, Indonesia. The book is divided into six parts related to Advanced Machine Learning and Data Mining, Intelligent Computational Methods in Information Systems, Semantic Web, Social Networks and Recommendation Systems, Cloud Computing and Intelligent Internet Systems, Knowledge and Language Processing, and Intelligent Information and Database Systems: Applications.

*Advanced Design and Manufacture to Gain a Competitive Edge* Xiu-Tian Yan 2008-07-30 Manufacturing industry has been one of the key drivers for recent rapid global economic development. Globalisation of manufacturing industries due to distributed design and labour advantage leads to a drive and thirst for technological advancements and expertise in the fields of advanced design and manufacturing. This development results in many economical benefits to and improvement of quality of life for many people all over the world. This rapid development also creates many opportunities and challenges for both industrialists and academics, as the design requirements and constraints have completely changed in this global design and manufacture environment. Consequently the way to design, manufacture and realise products have changed as well. More and more design and manufacture tasks can now be undertaken within computer environment using simulation and virtual reality technologies. These technological advancements hence support more advanced product development and manufacturing operations in such a global design and manufacturing environment. In this global context and scenario, both industry and the academia have an urgent need to equip themselves with the latest knowledge, technology and methods developed for engineering design and manufacture.

**Methods in Product Design** Ali K. Kamrani 2016-04-19 As industries adopt consumer-focused product development strategies, they should offer broader product ranges in shorter design times and the processes that can manufacture in arbitrary lot sizes. In addition, they would need to apply state-of-the-art methods and tools to easily conduct early product design and development trade-off analysis among competing objectives. *Methods in Product Design: New Strategies in Reengineering* supplies insights into the methods and techniques that enable implementing a consumer-focused product design philosophy by integrating design and development capabilities with intelligent computer-based systems. The book defines customer focused design and discusses ways to assess changing demands and sources, and delves into what is needed to successfully manufacture goods in a demanding market. It reviews proven methods for assessing customer need. Then, after showing how changing needs impact the reengineering of products, it explains how change can be efficiently achieved. It details how IT advances and technology support customer-focused product development, discusses cutting-edge mass customization principles that maximize cost-effective production, and illustrates how to implement effective predictive maintenance policies. *Methods in Product Design: New Strategies in Reengineering* provides methods, state-of-the-art technologies, and new strategies for customer-focused product design and development that allow organizations to quickly respond to the demanding global

marketplace.

**Modeling and Optimization of Biomass Supply Chains** Calliope Panoutsou 2017-08-11 Modeling and Optimization of Biomass Supply Chains: Top Down and Bottom Up Assessment for Agricultural, Forest and Waste Feedstock provides scientific evidence for assessing biomass supply and logistics, placing emphasis on methods, modeling capacities, large data collection, processing and storage. The information presented builds on recent relevant research work from the Biomass Futures, Biomass Policies and S2Biom projects. In addition to technical issues, the book covers the economic, social and environmental aspects with direct implications on biomass availability. Its chapters offer an overview of methodologies for assessing and modeling supply, biomass quality and requirements for different conversion processes, logistics and demand for biobased sectors. Case studies from the projects that inspire the book present practical examples of the implementation of these methodologies. The authors also compare methodologies for different regions, including Europe and the U.S. Biomass feedstock-specific chapters address the relevant elements for forest, agriculture, biowastes, post-consumer wood and non-food crops. Engineers in the bioenergy sector, as well as researchers and graduate students will find this book to be a very useful resource when working on optimization and modeling of biomass supply chains. For energy policymakers, analysts and consultants, the book provides consistent and technically sound projections for policy and market development decisions. Provides consistent ratios and indicators for assessing biomass supply and its logistical component Explores assumptions behind the assessment of different types of biomass, including key technical and non-technical factors Presents the existing modeling platforms, their input requirements and possible output projections

Optimization of DVHT Production Line Using WITNESS Simulation Software Jackson Mont-Louis 1996

**Process Mapping** V. Daniel Hunt 1996-02-01 A business organization, like a human body, is only as effective as its various processes. Pretty obvious, right? Yet, as V. Daniel Hunt demonstrates in this groundbreaking book, the failure to appreciate this obvious fact is the reason most reengineering schemes fail. Managers whose job it is to improve company performance, like physicians who work to improve patient health, must develop a clear picture of how each process fits into the overall organizational structure; how it ought to function; and how well it is performing at any given moment; before they can form a diagnosis or devise a treatment strategy. Fortunately, a powerful new analytical tool that has emerged in recent years helps you to do all of that and much more. Developed at General Electric, process mapping has been implemented in companies around the globe, and the results have been simply astonishing. Now find out how to make this breakthrough reengineering technology work for your organization in Process Mapping. The first and only hands-on guide of its kind, Process Mapping arms you with a full complement of state-of-the-art tools and techniques for assessing existing business processes and developing a detailed road map for ongoing change and improvement. Internationally known management consultant and bestselling author V. Daniel Hunt guides you step-by-step through the entire process. He helps you assess the need for process reengineering in your organization and determine whether or not a process map is what you need. He shows you how to create a process mapping team and helps you select the best-buy process mapping tools for the job. He explains how to gather vital information about your business processes via focused interviews and other interview techniques, and how to use this data in implementing process mapping. He also offers expert advice on how to apply your process map to significantly improve business functions and bottom-line performance. Hunt draws upon the experiences of companies around the world whose process mapping success stories will be a source of inspiration and instruction. You'll find out just how process mapping was put to use--and the results it achieved--at General Electric, IBM, NASA, Tandy Electronics, Shawmut National Bank, Fluor Daniel, Exxon, and other leading product and service firms. Find out all

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about today's most important new management tool and how to put it to work for continuous improvement in your organization in Process Mapping. The first and only hands-on guide to a powerful new process mapping tool The most important new process improvement tool to come along in more than a decade, process mapping enables managers to easily identify and assess the various business processes that make up their organizations and to develop a road map for continued performance improvement. Now find out how to make this breakthrough management tool work in your organization by applying Process Mapping. V. Daniel Hunt, the bestselling author of Reengineering, Quality in America, and The Survival Factor, guides you step-by-step through the entire process. He gives you all the proven process mapping tools and techniques you need to:

- \* Assess the need for process improvement in your company
- \* Decide if process mapping is right for you
- \* Create a process mapping team
- \* Select the best process mapping software tools for the job
- \* Collect vital information about business processes
- \* Use the data to build your own process map
- \* Use your process map to significantly improve bottom-line business performance

Hunt also provides detailed case studies of product and service companies around the globe that have discovered the value of process mapping. You'll find out how General Electric, IBM, NASA, Tandy Electronics, Shawmut National Bank, Fluor Daniel, Exxon, and other leading companies achieved stunning results when they made process mapping part of their business improvement efforts.

**Enabling a Simulation Capability in the Organisation** Andrew Greasley 2008-05-07 This book addresses the application of simulation modelling techniques in order to enable better informed decisions in business and industrial organisations. The book's unique approach treats simulation not just as a technical tool, but as a support for organisational decision making, showing the results from a survey of current and potential users of simulation to suggest reasons why the technique is not used as much as it should be and what are the barriers to its further use.

**Learning WITNESS Book One - Manufacturing Performance Edition** Lanner Group Ltd 2013 Simulation software for business decisions and profitability.

Plant Simulation at Smithkline Beecham by Using Witness Simulation Software Wei Pin Chau 1999

**Productivity Improvement Via Simulation Method (Manufacturing Industry)** Hasbullah Mat Isa 2010 Productivity improvement plays an important role in determining whether a company can survive in the future based on customer demands that it can fulfill. In this respect, simulation can be utilized as a what-if analysis tool to decide which productivity improvement strategies to be adopted. This thesis presents a simulation of the current performance of outputs and profits using WITNESS simulation software. The main objective of this project is to demonstrate the use of simulation in analyzing the existing production floor performance and in evaluating various alternatives to overcome the existing problem. This project is conducted in an electronic connector manufacturing company located in Shah Alam, Selangor. The production line involved in this project is the assembly line for FX15 model while the product involved in this study is connector manufactured. First, a simulation study on the existing production line is carried out to evaluate the production floor performance. Results of the study revealed that the current production floor was suffering from time working handling. From here, a total of 3 alternative layouts were proposed and they were simulated to determine their effect on the production performance. One way ANOVA test with multiple comparisons was conducted to select the best result. The results again showed a significant difference between each alternative layout and the best alternative to improve the existing production line is the Alternative layout III with productivity increment of 9.15% higher the current situation.

*Process Simulation Using WITNESS* Raid Al-Aomar 2015-09-15 Teaches basic and advanced modeling and simulation techniques to both undergraduate and postgraduate students and serves as a practical guide and manual for professionals learning how to build simulation models using WITNESS, a free-standing software package. This book discusses the theory behind simulation and demonstrates how to build simulation models with WITNESS. The book begins with an explanation of the concepts of simulation modeling and a “guided tour” of the WITNESS modeling environment. Next, the authors cover the basics of building simulation models using WITNESS and modeling of material-handling systems. After taking a brief tour in basic probability and statistics, simulation model input analysis is then examined in detail, including the importance and techniques of fitting closed-form distributions to observed data. Next, the authors present simulation output analysis including determining run controls and statistical analysis of simulation outputs and show how to use these techniques and others to undertake simulation model verification and validation. Effective techniques for managing a simulation project are analyzed, and case studies exemplifying the use of simulation in manufacturing and services are covered. Simulation-based optimization methods and the use of simulation to build and enhance lean systems are then discussed. Finally, the authors examine the interrelationships and synergy between simulation and Six Sigma. Emphasizes real-world applications of simulation modeling in both services and manufacturing sectors Discusses the role of simulation in Six Sigma projects and Lean Systems Contains examples in each chapter on the methods and concepts presented *Process Simulation Using WITNESS* is a resource for students, researchers, engineers, management consultants, and simulation trainers.

**Simulation-based Lean Six-Sigma and Design for Six-Sigma** Basem El-Haik 2006-10-27 This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality. Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods. The systems approach to designing products and services as well as problem solving is integrated into the methods discussed.

**Software Engineering Methods in Intelligent Algorithms** Radek Silhavy 2019-05-07 This book presents software engineering methods in the context of the intelligent systems. It discusses real-world problems and exploratory research describing novel approaches and applications of software engineering, software design and algorithms. The book constitutes the refereed proceedings of the Software Engineering Methods in Intelligent Algorithms Section of the 8th Computer Science On-line Conference 2019 (CSOC 2019), held on-line in April 2019.

*Rational Process Design: Simulation Modeling with Witness Horizon 22* Neil Gordon Murray Jr 2018-08-02 Rational Process Design and Simulation Modeling with Witness Horizon 22 Lanner Group released the latest update to their WITNESS process simulation software, WITNESS Horizon 22, in 2018. WITNESS Horizon includes many updates from prior releases especially including dramatic enhancements in three-dimensional modeling, Data Tables and charting tools. This edition of Rational Process Design & Simulation Modeling with WITNESS Horizon 22 provides an introduction to manufacturing process design and simulation modeling. More than being just a simple explanation of the mechanics of developing simulation models, there is a significant focus on the use of Axiomatic Design for manufacturing processes and building stochastic simulation models based on a strong foundation of process and product functional requirements. The approach is conversational with occasional humorous asides, taking the reader through a series of exercises that are illustrated step-by-step. The seven chapters of exercises sequentially build knowledge, experience and the reader's self-confidence. After all, one would certainly be reluctant to learn to ride a bicycle from reading a book.

Learning to develop useful simulation models is, in the end, best accomplished by actually building models and this text supports that model building with a thorough level of detail. Table of Contents  
Chapter 1 - Planning Your Simulation Project Chapter 2 - Introduction to Lanner WITNESS Structure & Menus Chapter 3 - Building Your First Model! Chapter 4 Modeling SMT Electronic Manufacturing Chapter 5 Conveyors, Paths and Pretzel Logic Chapter 6 Variables and Variability Stochastic modeling Fitting probability density functions to data Data Tables Charts Chapter 7 Advanced Topics 3 D modeling Axiomatic Design PFMEA and Simulation Chapter 8.0 Activity Based Costs and Simulation

### **A Study on the Facility Layout Planning for Fragrance Victory Sdn Bhd and Improve it with the Help of Witness Simulation Software Wei Chong Ooi 2009**

Plant Simulation Line Improvement of Maico Cu-line by Using Witness Simulation Software Kai Ming Sia 2000

Plant Simulation III Chun How Low 2001

### **Optimizing Manufacturing System Via Witness Simulation Software 2010**

Rational Process Design and Simulation Modeling with WITNESS Horizon Neil Murray 2017-02-25  
Rational Process Design and Simulation Modeling with Witness Horizon Lanner Group released the latest update to their process simulation software, Witness Horizon, in 2016. Witness Horizon includes many updates from prior releases especially with regard to dramatic enhancements in three-dimensional modeling. The previous edition of this text, which is also available in Kindle format, is specific to Witness 13 and 14. This edition or Rational Process Design & Simulation Modeling with Witness Horizon provides an introduction to manufacturing process design and simulation modeling. More than being a simple explanation of the mechanics of developing simulation models, there is a significant focus on the use of Axiomatic Design for manufacturing processes, building the simulation models up from a strong foundation of process and product functional requirements. Additionally, incorporation of Process Failure Mode Effect Analysis with simulation modeling is reviewed and demonstrated. The text consists of seven chapters, with each chapter building on the concepts presented in those prior. Chapter 1 - Simulation model project planning Chapter 2 - Introduction to Lanner Witness structure and menus Chapter 3 - Building a first simple model Chapter 4 - SMT electronics manufacturing model Chapter 5 - Conveyors and paths Chapter 6 - Variables and variability Chapter 7 - Advanced topics: PFMEA and simulation, Axiomatic Design of simulation models and 3D modeling

**Rational Process Design** Neil Murray 2019-04-23 Rational Process Design and Simulation Modeling with Witness Horizon 22.5 Lanner Group released the latest update to their WITNESS process simulation software, WITNESS Horizon 22.5, in 2019. WITNESS Horizon includes many updates from prior releases especially including dramatic enhancements in linkages to Relational Database Management Systems, three-dimensional modeling, Data Tables and charting tools. This fully color illustrated edition of Rational Process Design & Simulation Modeling with WITNESS Horizon 22.5 provides an introduction to manufacturing process design and simulation modeling. More than being just a simple explanation of the mechanics of developing simulation models, there is a significant focus on the use of Axiomatic Design for manufacturing processes and building stochastic simulation models based on a strong foundation of process and product functional requirements. The approach is conversational with occasional quasi-humorous asides, taking the reader through a series of exercises that are illustrated step-by-step. The seven chapters of exercises sequentially build knowledge, experience and the reader's self-confidence. After all, one would certainly be reluctant to learn to ride a

bicycle from reading a book. Learning to develop useful simulation models is, in the end, best accomplished by actually building models and this text supports that model building with a thorough level of detail. With this latest edition, introspection questions have been added to the conclusion of each chapter to further the learning process.

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Fitting probability density functions to data  
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Chapter 8 Simulation Modeling of Activity Based Costs

Method Study of a Manufacturing Plant with the Assists of Witness Simulation Software Tat Boon Ooi  
2008

**Process Simulation Using WITNESS** Raid Al-Aomar 2015-08-28 Teaches basic and advanced modeling and simulation techniques to both undergraduate and postgraduate students and serves as a practical guide and manual for professionals learning how to build simulation models using WITNESS, a free-standing software package. This book discusses the theory behind simulation and demonstrates how to build simulation models with WITNESS. The book begins with an explanation of the concepts of simulation modeling and a “guided tour” of the WITNESS modeling environment. Next, the authors cover the basics of building simulation models using WITNESS and modeling of material-handling systems. After taking a brief tour in basic probability and statistics, simulation model input analysis is then examined in detail, including the importance and techniques of fitting closed-form distributions to observed data. Next, the authors present simulation output analysis including determining run controls and statistical analysis of simulation outputs and show how to use these techniques and others to undertake simulation model verification and validation. Effective techniques for managing a simulation project are analyzed, and case studies exemplifying the use of simulation in manufacturing and services are covered. Simulation-based optimization methods and the use of simulation to build and enhance lean systems are then discussed. Finally, the authors examine the interrelationships and synergy between simulation and Six Sigma. Emphasizes real-world applications of simulation modeling in both services and manufacturing sectors Discusses the role of simulation in Six Sigma projects and Lean Systems Contains examples in each chapter on the methods and concepts presented Process Simulation Using WITNESS is a resource for students, researchers, engineers, management consultants, and simulation trainers.

Advanced Transdisciplinary Engineering and Technology Azman Ismail 2022-05-31 This book reports research findings and outcome from various discipline of engineering and technology, focusing on industrial technology operation and sustainable development. The content is the results of research done at the Research and Innovation Section of the Universiti Kuala Lumpur - MITEC as well as several experts from other institutions in Malaysia. The content describes the latest knowledge and development aligned with current trends of industrial technology operation in Malaysia.

**System Simulation and Modeling** Sankar Sengupta Computer simulation models a real-life or hypothetical situation on a computer to study how the system works. System Simulation and Modeling discusses system modeling and simulation through examples and applications from computer systems, statistics, manufacturing and insurance. It discusses materials for building a simulation model, evaluating results and taking decisions based on results. Also, Arena and step-by-step approach to convert a problem statement into an Arena simulation model are discussed along with commercially-available software on simulation like GPSS, SIMSCRIPT and DYNAMO.

Witness 2000 Lanner Group 2000 Simulation software for business decisions and profitability.

Plant Simulation at Tamco Corporate by Using Witness Interactive Simulation Software Ooi Han Tan 2005

*Productivity Improvement for Pusat Kesehatan Pelajar (PKP) by Using Witness Simulation Software*  
Choy Yuen Chen 2009 As the world is improving rapidly, time is seems to be the most essential factor to decide the strength of competency of organization. In a short word, a company that can produce massive product or good services with high quality in a short timing is what efficiency means. With the respect of the project title, Productivity Improvement for Pusat Kesehatan Pelajar (PKP) By Simulation Software is meant to improve quality and the efficiency of the existing service process flow in PKP of Universiti Malaysia Pahang (UMP). The main project objectives are to design and improve service floor layout of this selected organization, analyzed the designed layout and select the best solution for PKP. The project is started by evaluating and identifying the problems existed in the service floor layout. Continue by data collection for the data analysis to choose the best goodness-of-fit test to proceed to the simulation modeling step. Meanwhile, there are three alternatives are suggested reducing the waiting area capacity, add-in a medical consultant and the last alternative is the combination of both alternatives. By running an experiment on the suggested alternatives to improve the output patient number, these alternatives are modeled in the WITNESS Simulation software and run for the experimental time of 4 hours. These results are analyzed by Kruskal-Wallis and one way ANOVA test for the best solution selection. The experimented results are then being compared with the Cost-effectiveness analysis to determine the most efficient layout that able to produce high output of patient number with lowest cost. From the findings, the most productivity improvement method is adding a medical officer in the service floor layout and reducing the waiting area capacity from 27 to 5 chairs. Furthermore, this approach is also minimized the lead time of giving medical consultant to patient. Hence, the objectives of this project have been achieved and the selected alternative will be proposed to the PKP for implementation.

*Learning Witness Lanner Group 2013 Simulation software for business decisions and profitability.*

**Computational Intelligence in Industrial Application** Yanglv Ling 2015-07-28 These proceedings of the 2014 Pacific-Asia Workshop on Computational Intelligence in Industrial Application (CIIA 2014) include 81 peer-reviewed papers. The topics covered in the book include: (1) Computer Intelligence, (2) Application of Computer Science and Communication, (3) Industrial Engineering, Product Design and Manufacturing, (4) Automatio

**Robotics, Automation, and Control in Industrial and Service Settings** Luo, Zongwei 2015-09-10  
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Plant Simulation I Kok Hwa Ooi 2001

*Kajian Dan Analisis Terhadap Penukaran Susun Atur Flow Shop Ke Susun Atur Sel Berdasarkan Konsep Lean Dengan Menggunakan Perisdopting Lean Concept by Using Witness Simulation Software* Kok Wui Bon 2006

**Handbook of Simulation** Jerry Banks 1998-09-14 The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of:

- \* Simulation methodology, from experimental design to data analysis and more
- \* Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation
- \* Applications across a full range of manufacturing and service industries
- \* Guidelines for successful simulations and sound simulation project management
- \* Simulation software and simulation industry vendors