



# **Disassembly Modeling for Assembly, Maintenance, Reuse, and Recycling**

**A. J. D. (Fred) Lambert  
Surendra M. Gupta**

**The SI. Lacle Press Series on Resource Management**

# Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management

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## **Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management:**

**Disassembly Modeling for Assembly, Maintenance, Reuse and Recycling** A.J.D. (Fred) Lambert, Surendra M. Gupta, 2004-12-28 Industry has grown to recognize the value of disassembly processes across a wide range of products Increasing legislation that may soon require mandatory recycling of many post consumed goods and a desire to develop more environmentally benign end of life processes has fueled research into this concept Traditionally disassembly has been viewed as a *Financial Models and Tools for Managing Lean Manufacturing* David Meade, 2006-08-15 The effect Lean Manufacturing programs have on profit and loss statements during the early months of their implementation often causes them to be viewed as failures The length of time it will take traditional financial reports to reflect lean manufacturing improvements depends upon how poorly the operation was doing in terms of inventory management *Handbook of Supply Chain Management* James B. Ayers, 2006-04-24 Supply chain management SCM disciplines have produced a flood of new concepts methods and tools if applied wisely they will improve results A resource that weeds out and consolidates this new information will lower the business risk of implementing change Interpreting models and viewpoints from many fields into a supply chain context

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are raw materials through the life cycle of the product radio frequency identification RFID makes internal processes more efficient and improves overall supply chain responsiveness Helping you bring your organization into the future RFID in the Supply Chain 50. *Mitgliederversammlung Des CIRP International Institution for Production Engineering Research*,2000

Proceedings of the ... IEEE International Symposium on Electronics and the Environment ,2003 International Journal of Production Economics ,1997 Electrical & Electronics Abstracts ,1997 **CIRP Annals** International Institution for Production Engineering Research,1993 *Information Model for Disassembly for Reuse, Recycling, and Remanufacturing* nist,2013-11-25 Disassembly process is an essential activity in the mid and end of a product's service life cycle Maintenance is a mid product life activity which involves disassembly cleaning repair replace inspection and reassembly Remanufacturing reuse and recycle are end of product service life activities to reduce environmental impact and increase economic benefits This report describes a developed disassembly information model It is an integrated information with the following key components feature tolerance workpiece material equipment and process The model supports the modeling of disassembly features sequence operations decision making and workflow Case study with products and specific disassembly processes verifies the developed model **Information Model for Disassembly for Reuse, Recycling, and Remanufacturing (NIST IR 7772)** Shaw C. Feng, Hanmin Lee, Che B. Joong, Thomas Kramer, Parisa Ghodous, 2012-07-02 The National Institute of Standards and Technology NISTIR 7772 Information Model for Disassembly for Reuse Recycling and Remanufacturing addresses the disassembly process and how it is an essential activity in the mid and end of a product's service life cycle Maintenance is a mid product life activity which involves disassembly cleaning repair replace inspection and reassembly Remanufacture reuse and recycle are activities at the end of a product's service life The main purpose of performing these activities is to increase sustainability which includes reduce environmental impact increase economic and extend societal benefits to meet the goal of sustainable development This report describes a developed disassembly information model It is an integrated information model with the following key components feature tolerance workpiece material content equipment and process The model supports the modeling of disassembly features sequence operations decision making and workflow Case study using real products and their specific disassembly processes is provided to verify the developed model

**Remanufacturing Modeling and Analysis** Mehmet Ali Ilgin, Surendra M. Gupta, 2012-03-20 New Now Next Consumers ever growing appetite to acquire new products and their short courtship with them has kept manufacturers busy not only expending resources at an alarming rate but also depleting these resources and giving rise to waste and pollution at a correspondingly increasing and disturbing rate Traditional manufacturing methods that use mainly virgin materials to produce new products and dispose of the used products at the end of their lives are quickly becoming unsustainable In addition regulations that require manufacturers to take back products and dispose of them responsibly have forced manufacturers to establish dedicated facilities for product recovery systems that minimize waste and maximize

remanufacturing and recycling Remanufacturing Modeling and Analysis explores the design planning and processing issues encountered in remanufacturing systems and provides examples of quantitative modeling methodologies to deal with them The book covers the history industry size and potential comparison with other end of life options benefits conditions challenges and steps in a typical process It provides a brief overview of each of the industrial engineering and operations research techniques used in the book and explains the models developed to increase the remanufacturability of product designs The book also discusses how increasingly stringent environmental regulations and decreasing natural resources influence manufacturers toward more environmentally conscious manufacturing and product recovery initiatives With easy to use mathematical or simulation modeling that demonstrates solutions for each remanufacturing issue the book helps practitioners understand how a particular issue can be effectively modeled and how to choose the appropriate solution methodology An in depth look at quantitative analysis for remanufacturing systems the book provides a foundation upon which to build a body of knowledge in this fast and growing area

**The Disassembly Line: Disassembly-line balancing** Seamus McGovern,2011 This unique resource comprehensively covers the disassembly line a key component of remanufacturing recycling and environmentally conscious manufacturing as well as reverse and closed loop supply chains

**Information Model for Disassembly for Reuse, Recycle, and Remanufacturing** Shaw C. Feng,2011 *The Disassembly Line: Balancing and Modeling* Seamus M. McGovern,Surendra M. Gupta,2011-01-04 The definitive guide to the disassembly line The Disassembly Line Balancing and Modeling provides in depth information on this complex process essential to remanufacturing recycling and environmentally conscious manufacturing This pioneering work offers efficient techniques required to solve problems involving the number of workstations required and the disassembly sequencing of end of life products on the disassembly line In this book the disassembly line balancing problem DLBP is described defined mathematically and illustrated by case studies Combinatorial optimization methodologies are presented as solutions to the DLBP Coverage includes Graphical representations of products to be disassembled Computational complexity of combinatorial problems Description of the disassembly line and the mathematical model Computational complexity of the DLBP Combinatorial optimization searches Experimental instances Analytical methodologies Exhaustive search Genetic algorithm Ant colony optimization Greedy algorithm Greedy adjacent element hill climbing hybrid Greedy 2 opt hybrid H K heuristic Quantitative and qualitative comparative analysis This authoritative volume also covers product planning line and facility design sequencing and scheduling inventory just in time revenue and unbalanced lines

**Disassembly Sequence Planning for Product Maintenance** Yongtao Luo,2014 Environmental and sustainable issues have brought more and more attention to industries in product design and manufacturing It is important for a product to meet its lifecycle requirements in repairing replacing and recycling Disassembly is required in product maintenance and recycling An efficient disassembly plan can reduce the cost of product maintenance and minimize the product repair time This thesis introduces an efficient

method for selective disassembly planning for the need of product maintenance and recycling to reduce the product operation time and cost The method is based on an efficient product representation and effective sequence searching It considers the product structure removing direction of components operation constraints and complex in the product representation and sequencing planning Examples are used to verify the proposed method Challenges and further work are also discussed

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## **Table of Contents Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management**

1. Understanding the eBook Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - The Rise of Digital Reading Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Advantages of eBooks Over Traditional Books
2. Identifying Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - User-Friendly Interface
4. Exploring eBook Recommendations from Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Personalized Recommendations
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management User Reviews and Ratings

- Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management and Bestseller Lists
- 5. Accessing Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management Free and Paid eBooks
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management Public Domain eBooks
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management eBook Subscription Services
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management Budget-Friendly Options
- 6. Navigating Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management eBook Formats
  - ePub, PDF, MOBI, and More
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management Compatibility with Devices
  - Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Highlighting and Note-Taking Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Interactive Elements Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
- 8. Staying Engaged with Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
- 9. Balancing eBooks and Physical Books Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource



Management

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management

- Setting Reading Goals Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management

- Fact-Checking eBook Content of Disassembly Modeling For Assembly Maintenance Reuse And Recycling Resource Management
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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