



# ASSEMBLY LINE BALANCING

# Assembly Line Design And Balancing

**Jicheng Xie**



## **Assembly Line Design And Balancing:**

Assembly Line Design Brahim Rekiek, Alain Delchambre, 2006-04-21 Efficient assembly line design is a problem of industrial importance. Assembly line design is often complex due to the multiple components involved, efficiency, cost, and space. The aim is to integrate the design with operations issues, minimizing costs. It is important to give the designer tools to help him meet the different objectives. 3 techniques based on the Grouping Genetic Algorithm are presented which can be used to aid assembly line design. Equal piles for assembly lines deals with assembly line balancing, balancing stations, loads, a method based on a multiple objective grouping genetic algorithm. MO GGA deals with resource planning, selection of equipment, balance for operation, deals with the changes during the operation of assembly lines. This book will interest technical personnel in design, planning, and production departments in industry, as well as managers in industry. It will also be of use to researchers and postgraduates in mechanical manufacturing or micro engineering.

**Assembly Line Design** We-Min Chow, 2020-12-17 This book attempts to treat line design and its related subjects in a cohesive manner with an emphasis on design applications. It discusses general guidelines for setting up assumptions and determining line performance parameters based on empirical data from literature reports.

**Network Models and Optimization** Mitsuo Gen, Runwei Cheng, Lin Lin, 2008-07-10 Network models are critical tools in business management science and industry. Network Models and Optimization presents an insightful, comprehensive, and up-to-date treatment of multiple objective genetic algorithms to network optimization problems in many disciplines such as engineering, computer science, operations research, transportation, telecommunication, and manufacturing. The book extensively covers algorithms and applications including shortest path problems, minimum cost flow problems, maximum flow problems, minimum spanning tree problems, traveling salesman and postman problems, location allocation problems, project scheduling problems, multistage based scheduling problems, logistics network problems, communication network problem, and network models in assembly line balancing problems and airline fleet assignment problems. The book can be used both as a student textbook and as a professional reference for practitioners who use network optimization methods to model and solve problems.

*Design and Balancing of Robotic Assembly Lines* Jacob Rubinovitz, Joseph Bukchin, Society of Manufacturing Engineers, 1991

**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 Balancing and Sequencing of Assembly Lines Armin Scholl,1999-02-26 The book deals with two main decision problems which arise when flow line production systems are installed and operated The assembly line balancing problem consists of partitioning the work necessary to assemble the products among different stations of an assembly line If several models of a product are jointly processed on a line this medium term problem is connected with the short term problem of determining an operating sequence of the models In Part I balancing and sequencing problems are discussed classified and arranged within a hierarchical planning system In the present second edition special emphasis is given to u shaped assembly lines which are important components of modern just in time production systems Part II is concerned with exact and heuristic procedures for solving those decision problems For each problem type considered a survey of existing procedures is given and new efficient solution methods are developed Comprehensive numerical investigations showing the effectiveness of the new methods and their superiority over existing approaches are reported **Springer Handbook of Automation** Shimon Y. Nof,2009-07-16 Automation is undergoing a major transformation in scope and dimension and plays an increasingly important role in the global economy and in our daily lives Engineers combine automated devices with mathematical and organizational tools to create complex systems for a rapidly expanding range of applications and human activities This handbook incorporates these new developments and presents a widespread and well structured conglomeration of new emerging application areas of automation Besides manufacturing as a primary application of automation the handbook contains new application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics This Springer Handbook is not only an ideal resource for automation experts but also for people new to this expanding field such as engineers medical doctors computer scientists designers It is edited by an internationally renowned and experienced expert *Advanced Designs and Researches for Manufacturing* Peng Cheng Wang,Xiang Dong Liu,Yong Quan Han,2012-12-13 Selected papers from the 2nd International Conference on Materials and Products Manufacturing Technology ICMPT 2012 September 22 23 2012 Guangzhou China *An Aggregate Approach to Assembly Line Design for the College of Engineering [sic]* Douglas Lynn Surine,Joseph Pearce Keithley,1972 Assembly Line Design We-Min Chow,2020-12-17 This book attempts to treat line design and its related subjects in a cohesive manner with an emphasis on design applications It discusses general guidelines for setting up assumptions and determining line performance parameters based on empirical data from literature reports **Manufacturing Engineering Models for Design and Analysis of**

**Production Systems** Wilbert E. Wilhelm,1978      **Assembly Line Rebalancing with Non-constant Task Time Attribute**  
Yuchen Li,2016 Assembly line has been widely used in producing complex items such as automobiles and other transportation equipment household appliances and electronic goods Assembly line balancing is to maximize the efficiency of the assembly line so that the optimal production rate or optimal length of the line is obtained Since the 1950s there has been a plethora of research studies focusing on the methodologies for assembly line balancing Methods and algorithms were developed to balance an assembly line which is operated by human workers in a fast and efficient fashion However more and more assembly lines are incorporating automation in the design of the line and in that case the line balancing problem structure is altered For these automated assembly lines novel algorithms are provided in this dissertation to efficiently solve the automated line balancing problem when the assembly line includes learning automata Recent studies show that the task time can be improved during production due to machine learning which gives the opportunities to rebalance the assembly line as the improvements occur and are observed The concept of assembly line rebalancing or task reassignment are crucial for the assembly which is designed for small volume production because of the demand variation and rapid innovation of new product In this dissertation two forms of rebalancing are provided forward planning and real time adjustment The first one is to develop a planning schedule before production begins given the task time improvement is deterministic The second one is to rebalance the line after the improvements are realized given the task time improvement is random Algorithms address one sided and two sided assembly lines are proposed Computation experiments are performed in order to test the performance of the novel algorithms and empirically validate the merit of improvement of production statistics      Intelligent Design and Manufacturing Andrew Kusiak,1992 Focuses on design and manufacturing and a variety of issues pertinent to successful techniques involving concurrent engineering Considers product design and manufacturing constraints simultaneously emphasizing the consideration of every element of the product s life cycle from concept through disposal Examines such areas as quality cost scheduling and user needs Design and manufacturing problems are thoroughly discussed and solutions are given by using numerous modern applications and implements including basic artificial intelligence tools      Journal of Operations Management American production and inventory control society,1991      **Proceedings of the 13th International Conference on Production Research** E. M. Dar-El,Reuven Karni,Yale T. Herer,1995      The Management of Manufacturing Edward J. Anderson,1994 This text sets out to demonstrate the types of models and analysis necessary to solve problems in production management It focuses on the flow of material through the manufacturing process and provides a balanced up to date account of the fundamentals      **International journal of production economics** ,2003      Robotics Today ,1983      **The Design of the Factory with a Future** J. Temple Black,1991      **INTERNATIONAL JOURNAL OF PRODUCTION ECONOMICS: MANUFACTURING SYSTEMS, STRATEGY & DESIGN** ,1987

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