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to in 2018 after the production line for the
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Addressing design for automated and manual assembly processes, *Assembly Automation and Product Design, Second Edition* examines assembly automation in parallel with product design. The author enumerates the components, processes, performance, and comparative economics of several types of automatic assembly

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Taking a new product from the design stage to large-scale production in a profitable, efficient manner can challenge the processes of even the most advanced companies. Lapses in these processes drive up the cost of new products, and hinder their launch into the marketplace. Effective Transition from Design to Production provides an expeditious roadmap that considers every phase of production. It identifies customer requirements, discusses product concept,

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and covers master scheduling and risk analysis, as well as design considerations, prototypes, and tooling essentials. Among other things, it also explains how to identify and augment facility requirements, initiate production ramp up, evaluate packaging, and institute defect control. Takes an Integrative Approach that Allows Managers to Understand the Big Picture As the author introduces and explains each stage, he also offers guidance as to when to involve outside parties including potential providers of raw materials and subcontractors who may take part in the production and assembly process. He presents the seven stages of the production process— system design, detailed design, manufacturing planning, production readiness, low rate initial production, and production—in sequential order, examining how each one leads to the other. This allows readers to not only

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grasp the basic concepts crucial for success at each stage, but also to visualize the big picture so that they can anticipate problems, eliminate inefficiency, and make informed managerial decisions.

Text for professional seminars and upper-level undergraduate and graduate courses on assembly automation in manufacturing and product design, and/or reference guide for manufacturing, product, design, industrial, and mechanical engineers seeking to improve productivity and competitiveness while redu

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planning and automated CAD-based inspection, this handbook provides all the information you need to design, plan, and implement a modern, efficient manufacturing system tailored to your company ' s special needs and requirements. Handbook of Design, Manufacturing and Automation does more than simply present the characteristics and specifications of each technology—much more. Each technology is discussed both in terms of its own capabilities and in terms of its compatibility with other technologies, and the trade-offs involved in choosing one option over another are explored at length. An entire section is devoted to the business aspects of converting to the new technologies, including acquisition of automation, managing advanced manufacturing technology, and issues of cost and financing. The focus is on

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Automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material handling, and how these technologies are used to construct modern manufacturing systems.

In recent decades, the development of computer-controlled manufacturing by adding material layer by layer, called Additive Manufacturing (AM), has developed at a rapid pace. The technology adds possibilities to the manufacturing of geometries that are not possible, or at least not economically feasible, to manufacture by more conventional manufacturing methods. AM comes with the idea that complexity is free, meaning that complex geometries are as expensive to manufacture as simple

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geometries. This is partly true, but there remain several design rules that need to be considered before manufacturing. The research field Design for Additive Manufacturing (DfAM) consists of research that aims to take advantage of the possibilities of AM while considering the limitations of the technique. Computer Aided technologies (CAx) is the name of the usage of methods and software that aim to support a digital product development process. CAx includes software and methods for design, the evaluation of designs, manufacturing support, and other things. The common goal with all CAx disciplines is to achieve better products at a lower cost and with a shorter development time. The work presented in this thesis bridges DfAM with CAx with the aim of achieving design automation for AM. The work reviews the current DfAM process and

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proposes a new integrated DfAM process that considers the functionality and manufacturing of components.

Selected parts of the proposed process are implemented in a case study in order to evaluate the proposed process. In addition, a tool that supports part of the design process is developed. The proposed design process implements Multidisciplinary Design Optimization (MDO) with a parametric CAD model that is evaluated from functional and manufacturing perspectives. In the implementation, a structural component is designed using the MDO framework, which includes Computer Aided Engineering (CAE) models for structural evaluation, the calculation of weight, and how much support material that needs to be added during manufacturing. The component is optimized for the reduction of weight and minimization of support material, while the

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stress levels in the component are constrained. The developed tool uses methods for high level Parametric CAD modelling to simplify the creation of parametric CAD models based on Topology Optimization (TO) results. The work concludes that the implementation of CAX technologies in the DfAM process enables a more automated design process with less manual design iterations than traditional DfAM processes. It also discusses and presents directions for further research to achieve a fully automated design process for Additive Manufacturing.

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