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Setup Optimization and Workload Balancing: For Mixed-Model Electronics Assembly Operations (Classic Reprint) (Paperback)

By Anantaram Balakrishnan

Forgotten Books, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Setup Optimization and Workload Balancing: For Mixed-Model Electronics Assembly Operations To cope with the rapid technological advances, product proliferation, shorter product lifecycles, and increasing competition, electronics companies are adopting flexible assembly strategies using multiple surface mount assembly modules to produce many different products in small batches. The component placement machines account for over half the investment in surface mount assembly lines, and also require considerable setup time (comparable to the actual processing time for small lot sizes) to changeover production from one product to another. This paper addresses a tactical planning problem for high mix, low volume electronics assembly facilities containing several placement machines (modules) operating in parallel. We propose an optimization model to decide which product families to assemble on each machine in order to minimize the total setup cost per demand period while ensuring that none of the machines is overloaded. Unlike strategic and operational models that emphasize either workload balancing or setup optimization, our tactical planning model simultaneously considers both these conflicting factors. To capture the impact of product grouping decisions on setup cost, we consider a partial set...



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