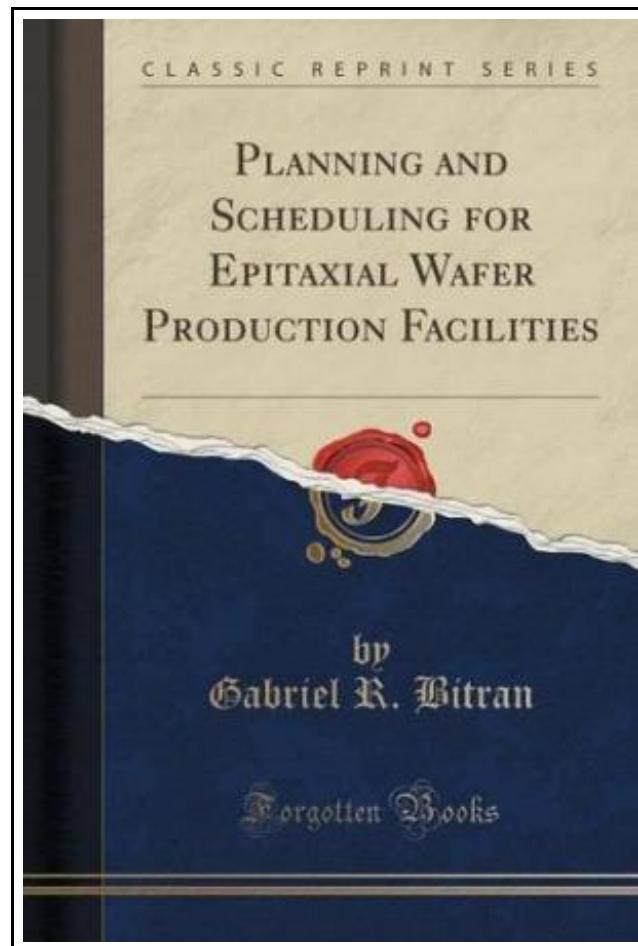


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Planning and Scheduling for Epitaxial Wafer Production Facilities In this paper we describe production planning and scheduling models for a semiconductor company manufacturing specialty wafers. The production of specialty wafers involves processing a large number of low volume customer specific orders which can be classified into a number of product groups. Typically, the literature in scheduling deals with one product and a single objective. In contrast, we propose and test several heuristics for scheduling jobs in a multi-product parallel reactor (machine) shop with different criteria. We introduce a set of indices to measure the degree of homogeneity in the product set. Based on the results of the computational experiments, we recommend that the choice of the heuristic should be guided by the homogeneity of the product set and the chosen objective criterion. The planning problem relates to the assignment of reactors to the product groups to obtain homogeneous product sets and can be viewed as an effort to define smaller, independent shops. The significance of the planning exercise is due to the fact that a homogeneous product set enables the use of a simpler heuristic and reduces the complexity of the scheduling system. The planning model is a nonlinear integer program and difficult to solve. We propose to obtain an approximate solution by solving a related quadratic program. We provide bounds on the performance of this approximate solution and demonstrate that it is asymptotically optimal. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original...



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