



A Product Design Problem in Semiconductor Manufacturing (Classic Reprint)

By Florin Avram

Forgotten Books, United States, 2016. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Product Design Problem in Semiconductor Manufacturing August 1989 We consider the product design problem of allocating the chip sites on a semiconductor wafer to various types of chips. The manufacturing facility sells chips to its customers in sets (a specified number of several different types of chips), and the objective of the facility is to maximize the average production rate of sets. Variability in the wafer fabrication process, in particular random yield, poses a major obstacle in producing sets in a reliable fashion. A stochastic analysis is employed to develop an effective wafer design, and to measure the improvement in performance of the multi-type wafer over the traditional single-type wafer. The analysis reveals that multi-type wafers regularize the production flow of non-defective chips of each type and cause these flows to be positively correlated, both of which help to improve performance. A numerical example is provided that illustrates the analysis and demonstrates the design's effectiveness. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This...



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