



A Case-Based System to Support Electronic Circuit Diagnosis (Classic Reprint)

By Thilo Semmelbauer

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Case-Based System to Support Electronic Circuit Diagnosis Diagnosis and repair operations have traditionally been major bottlenecks in electronics circuit assembly operations because they are labor intensive and highly variable. Rapid technological advances, shrinking product lifecycles, and increasing competition in the electronics industry have made quick and efficient diagnosis critical for cost control and quality improvement, while simultaneously increasing the difficulty of the diagnosis task. This paper describes a case-based diagnosis support system to improve the effectiveness and efficiency of circuit diagnosis by automatically updating the set of candidate defects, and prioritizing tests during the sequential testing process. The case-based system stores individual diagnostic instances rather than general rules and algorithmic procedures; its knowledge base grows as new faults are detected and diagnosed by the analyzers. The system provides distributed access to multiple users, and incorporates on-line updating features that make it quick to adapt to changing circumstances. Because it is easy to install, update, and integrate with existing systems, this method is well-suited for real manufacturing applications. We have implemented a prototype version, and...



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