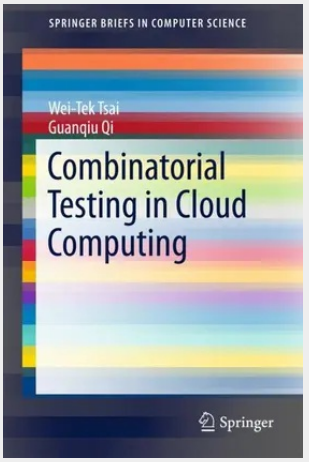
Tsai / Qi

Combinatorial Testing in Cloud Computing

This book introduces readers to an advanced combinatorial testing approach and its application in the cloud environment. Based on test algebra and fault location analysis, the proposed combinatorial testing method can support experiments with 250 components (with 2 * (250) combinations), and can detect the fault location based on the testing results. This function can efficiently decrease the size of candidate testing sets and therefore increase testing efficiency. The proposed solution’s effectiveness in the cloud environment is demonstrated using a range of experiments.

Introduces readers to an advanced combinatorial testing approach that delivers outstanding efficiency and effectivenessProvides a combinatorial testing solution for the cloud environmentAddresses both theoretical and practical aspects of combinatorial testing and Testing-as-a-ServiceUses mathematical methods to detect fault locations and eliminate potential faults from testing considerations based on existing testing results



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