



## Theories of Program Testing and the Application of Revealing Sub-Domains (Classic Reprint)

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By Elaine J Weyuker

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Theories of Program Testing and the Application of Revealing Sub-Domains The theory of test data selection proposed by Goodenough and Gerhart is examined and a number of theoretical and pragmatic deficiencies are identified. The concepts of a revealing test criterion and a revealing subdomain are proposed to overcome some of these weaknesses, and to provide a realistic basis for a theory of testing. A subset of a program's input domain is revealing if the existence of one incorrectly processed input implies that all the subset's elements are processed incorrectly. The intent of this notion is to partition the program's domain in such a way that all elements of an equivalence class are either processed correctly or incorrectly. A program test set is then formed by choosing one element from each class. The technique is especially useful for programs whose computations depend on a classification of their input domain, but it can also be useful for programs which process their entire domain uniformly. A methodology for forming revealing subdomain partitions is described, and...



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