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## Comparing Three Approaches to Transformational Programming (Classic Reprint) (Paperback)

By Konstantin Laufer

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Comparing Three Approaches to Transformational Programming Programming is a complex task; large programs are difficult to produce, and once produced they are often unreliable and expensive to maintain or improve. The software crisis remains an important issue in software engineering. A large amount of research has been going on to overcome this crisis: On one hand, a considerable portion of the work has focused on formalizing and automating the software development process; on the other hand, prototyping has been promoted as a method of obtaining information about a problem before implementing it in a production language. Traditionally, programs have been verified experimentally by choosing a number of input test cases, running the program, and evaluating the results. -the problem with this approach is that it can never formally prove the correctness of the program. There might always be cases not captured by the test data. Prototyping attempts to catch errors at an early a stage of the program development. Formal verification, on the other hand, is an analytic process that defines in mathematical terms what it means for a program to...



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