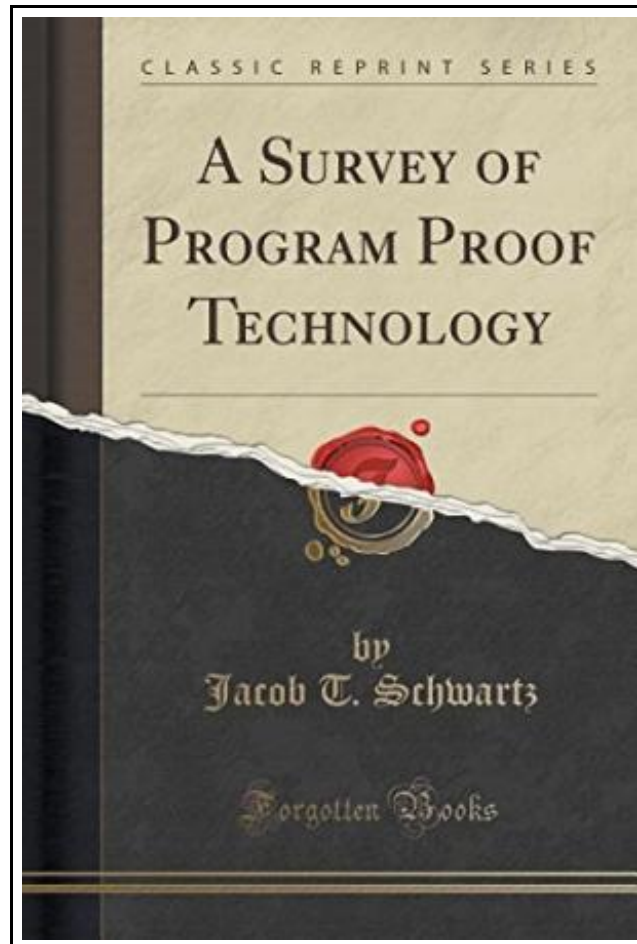# A Survey of Program Proof Technology (Classic Reprint) (Paperback)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Survey of Program Proof Technology The problem of proving programs correct has existed since the first computers were constructed, and has steadily grown more pressing as programs have increased in complexity. The large number of papers (close to 800) that have been written in this area have established program verification as a recognised subfield of computer science. But in spite of all this work, a truly practical program verification technology has been slow to develop, and is still not at hand. Indeed, the history to date of program verification makes one key fact quite clear: The problem of verifying large programs rigorously is a very difficult one, and its solution will imply significant changes in current programming technology. This paper will review various salient aspects of the verification problem, assess progress to date, point cut major difficulties which remain, and attempt to project future directions of progress. 2. How is it possible to prove programs correct? To prove programs correct, one can begin by giving formal mathematical definition to the notions program and program execution . Essentially, these mathematical definitions merely formalise the basic facts concerning programs and their meaning that one would present in a first course on programming. The state of a program is a mapping which defines the current value of every variable appearing in the program, and which also defines a current control location , i.e., the particular statement of the program which is to be executed next. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology...

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