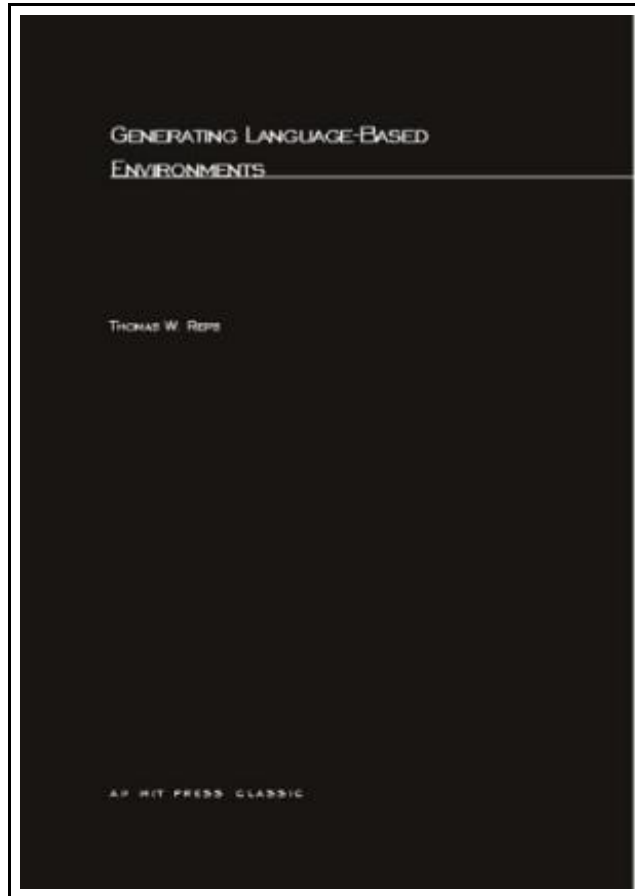# Generating Language Based Environments (Paperback)

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Reviews

It is really an awesome ebook that we actually have actually study. It can be loaded with wisdom and knowledge Once you begin to read the book, it is extremely difficult to leave it before concluding.
(Mr. Coleman Ortiz)

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MIT Press Ltd, United States, 2005. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book. This book addresses a fundamental software engineering issue, applying formal techniques and rigorous analysis to a practical problem of great current interest: the incorporation of language-specific knowledge in interactive programming environments. It makes a basic contribution in this area by proposing an attribute-grammar framework for incremental semantic analysis and establishing its algorithmic foundations. The results are theoretically important while having immediate practical utility for implementing environment-generating systems.The book s principal technical results include: an optimal-time algorithm to incrementally maintain a consistent attributed-tree of attribute grammar subclasses, allowing an optimizing environment-generator to select the most efficient applicable algorithm; a general method for sharing storage among attributes whose values are complex data structures; and two algorithms that carry out attribute evaluation while reducing the number of intermediate attribute values retained. While others have worked on this last problem, Reps s algorithms are the first to achieve sublinear worst-case behavior. One algorithm is optimal, achieving the log n lower space bound in nonlinear time, while the second algorithm uses as much as root n. space but runs in linear time.

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