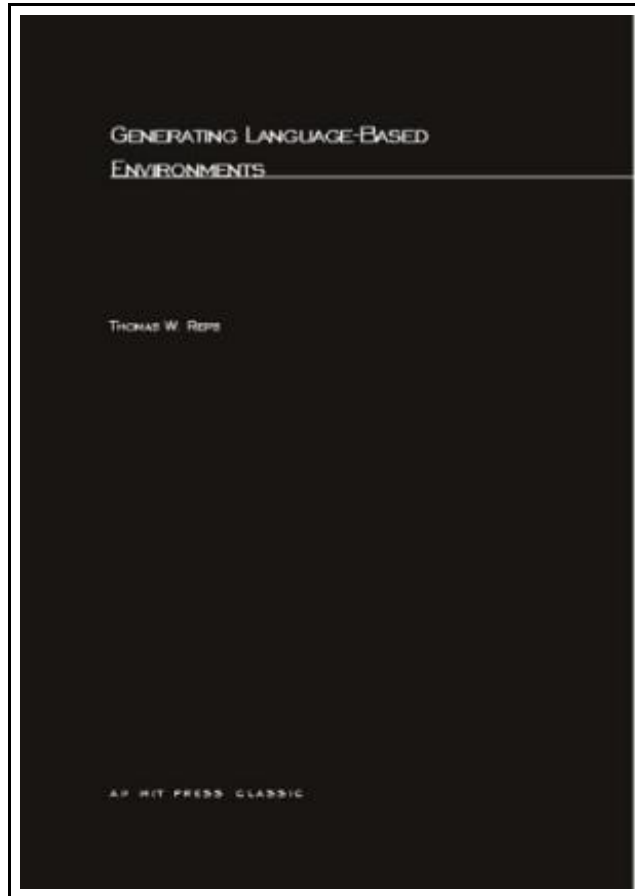# Generating Language Based Environments (Paperback)

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(Brendan Wuckert)

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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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