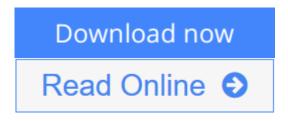


## **Data Flow Analysis: Theory and Practice**

By Uday Khedker, Amitabha Sanyal, Bageshri Sathe



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Data flow analysis is used to discover information for a wide variety of useful applications, ranging from compiler optimizations to software engineering and verification. Modern compilers apply it to produce performance-maximizing code, and software engineers use it to re-engineer or reverse engineer programs and verify the integrity of their programs.

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in GCC.

Through the inclusion of case studies and examples to reinforce material, this text equips readers with a combination of mutually supportive theory and practice, and they will be able to access the author's accompanying Web page. Here they can experiment with the analyses described in the book, and can make use of updated features, including:

- Slides used in the authors' courses
- The source of the generic data flow analyzer (gdfa)
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#### Review

...provides a very decent and quite balanced coverage of the topic from a formal perspective. It is well written and nicely organized, containing many examples which definitely help to clarify the rather technical content. All the chapters end with a summary and concluding remarks, as well as bibliographic notes, pointing to further readings. This book also comes with a live web page...that contains slides with some additional material, [an updated] Errata section... and the analyzer software. This book includes an introduction to GCC, a rich list of references, and an index.

--Zhjzhang Shen, Plymouth State University

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