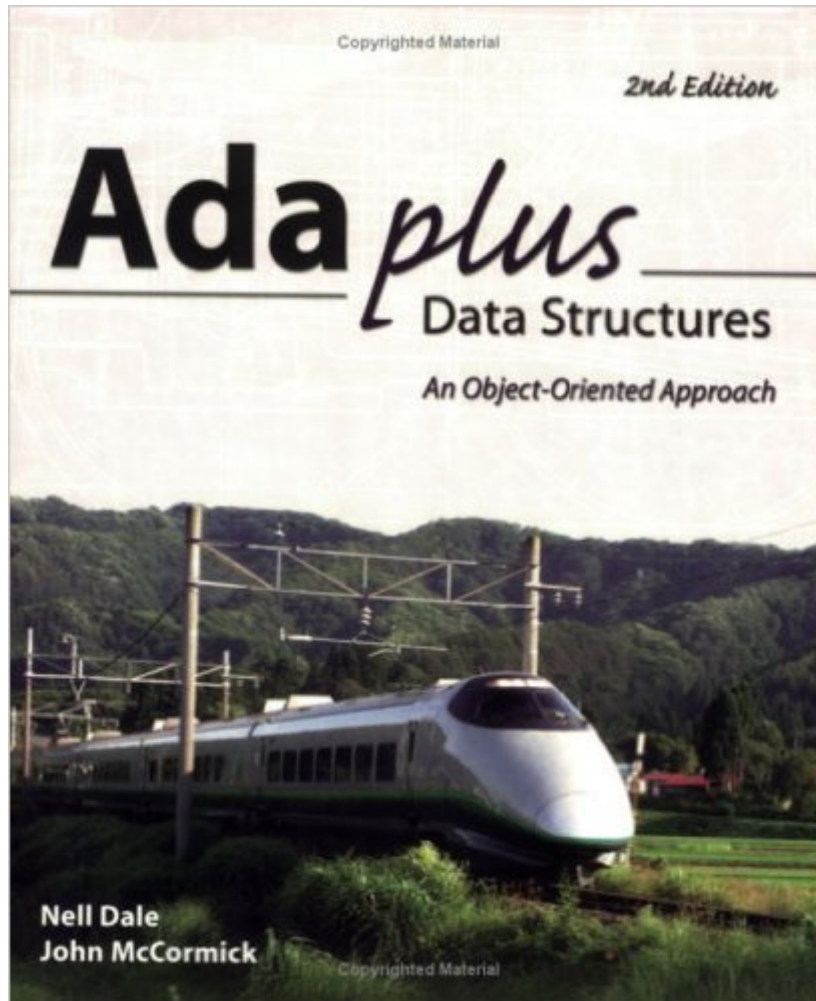# Ada Plus Data Structures: An Object Oriented Approach

Synopsis

Ada Plus Data Structures is the most up-to-date, student-friendly Ada text available. Using the newly updated Ada 2005, the text introduces and discusses such familiar topics as strings, sets, stacks, queues, lists, trees, graphs, and much more. The recurring theme throughout the text is modeling with levels of abstraction, presenting each class from three different perspectives: their specification, their abstraction, and their implementation. Using this approach, the authors stress computer science theory and software engineering principles including information hiding, data encapsulation, data abstraction, stepwise refinement, and visual aids. With its object-oriented presentation, real-world applications, and traditional Dale Pedagogy, Ada Plus Data Structures is a pleasure to read and learn from.

Book Information

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Customer Reviews

As a freshman at an upstate New York state university, this was the textbook for the second sequential computer science course. Of course, the choice was obvious: McCormick being a former professor at the school. At that point, I was a beginning programmer, having already taken basic programming classes. This book, however, is responsible for my now-firm grasp of data structures and algorithms. Both dynamic and static structures, complex and simple, this book is the primer for an understanding of data structures in Ada.As an Ada textbook alone, it has its faults: it assumes the reader has a knowledge of the programming language, but from that point teaches a method of

programming that enforces good stylistic patterns and strong code. Now, when it comes to algorithm layout in my position as a design engineer, I turn to Ada first for a comprehensible design structure, and then port it to other languages as necessary.

I bough this thinking "there's no way it's gonna come with a floppy disk." BOY WAS I WRONG! I couldn't believe when it showed up and inside was a brand-new, fully sealed paper envelope with a 3.5" floppy disk in it. I was ecstatic. I searched for hours looking for my old USB floppy drive so I could see if the disk still worked, but I never did locate it.Oh, and I also had one of the authors as my professor for this class. If you don't know Ada to start, you really shouldn't get this book. It doesn't teach you Ada, it only teaches you how to implement data structures using Ada.

Book essential and practical for those who want to understand more ADA language.Best Merit: The book is full of every argument, even he begins with software engineering.Defect:Some examples in this book, may distract the reader from the real goal.

Excellent condition just as described

My class used this book in a data structures course, and there was a point of contention between the professor and the class regarding Ada. I felt our professor was unfairly penalizing us for her misunderstanding, so I emailed one of the authors and asked him or her what his opinion was. Either McCormick or Dale was very helpful and answered my questions in a conversational, multiple-email exchange, then asked what course I was teaching. I explained I was just a student, and after that our friendly exchange ended with the author completely ignoring all following emails. What a jerk.The textbook itself isn't worth the money and has no use on a reference shelf. It's a fragmented regurgitation of the freely available Ada reference manual with some elementary data structures and mild discussion thrown in. The beginner in Ada will find it frustrating that the authors never focus on the language, and the student with even a passing competence in data structures will skip whole chapters. In other words, it's an introductory text that curiously assumes a knowledge of Ada, but expects a total unfamiliarity with stacks, queues, lists, etc. If you're learning Ada, stick to ISO/IEC 8652:2007(E). If you're learning elementary data structures, use Google or a more focused text. If you're Dale or McCormick, what do you have against students?

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