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Título: Object-Oriented Programming Via Fortran 90/95

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Sinopsis

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Learn how to write technical applications in a modern object-oriented approach, using Fortran 90 or 95. This book will teach you how to stop focusing on the traditional procedural abilities of Fortran and to employ the principles of object-oriented programming to produce clear, highly efficient executable codes. Get ready now to take advantage of all the features of the finalized, fully object-oriented Fortran 200X! In addition to covering the OOP methodologies the book also covers the basic foundation of the language and good programming skills, making the book valuable also as a good migration tool for experienced Fortran programmers who want to smoothly pick up the OOP paradigm. The author highlights common themes by using comparisons with Matlab and C++ and uses numerous cross-referenced examples to convey all concepts quickly and clearly. Complete code for the examples is included on the book's web page.

! First book on Fortran 90/95 to emphasize object-oriented programming

Contents

1. Program design; 2. Data types; 3. Object oriented programming concepts; 4. Features of programming languages; 5. Object oriented methods; 6. Inheritance and polymorphism; 7. OO data structures; 8. Arrays and matrices; 9. Advanced topics; A. Bibliography; B. Fortran90 overview; C. Selected exercise solutions; D. Companion C++ examples; E. Glossary of object oriented terms; F. Subject index; G. Program index.