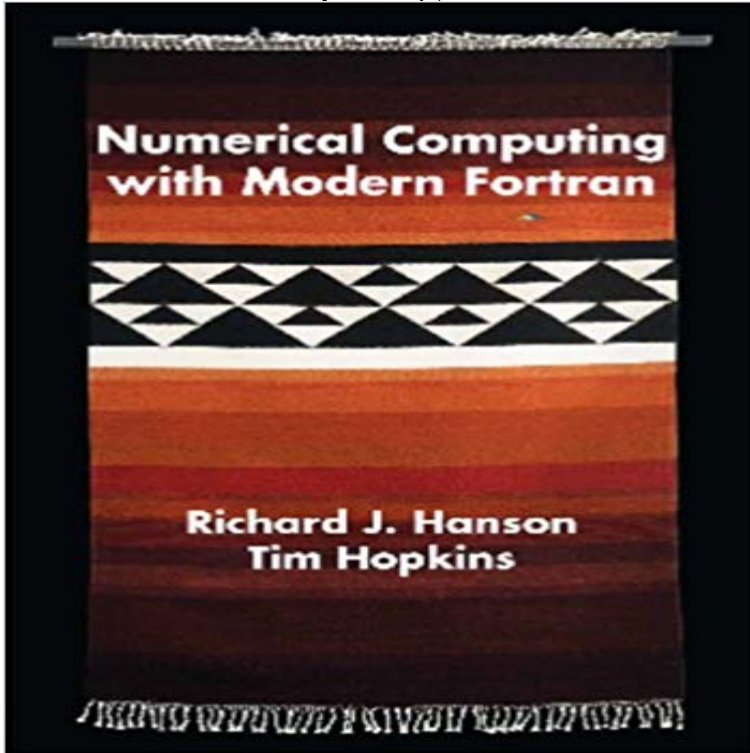


Numerical Computing With Modern Fortran (Applied Mathematics)



The Fortran language standard has undergone significant upgrades in recent years (1990, 1995, 2003, and 2008). Numerical Computing with Modern Fortran illustrates many of these improvements through practical solutions to a number of scientific and engineering problems. Readers will discover techniques for modernizing algorithms written in Fortran; examples of Fortran interoperating with C or C++ programs, plus using the IEEE floating-point standard for efficiency; illustrations of parallel Fortran programming using coarrays, MPI, and OpenMP; and a supplementary website with downloadable source codes discussed in the book. Audience: This book is intended for Fortran programmers seeking to update their programming skills using the language's latest features and for C and C++ programmers who want to understand key software aspects of numerical computing using modern Fortran. It is suitable for an upper-level undergraduate or early graduate course on advanced numerical scientific computing. Contents: Introduction; Chapter 1: The Modern Fortran Source; Chapter 2: Modules for Subprogram Libraries; Chapter 3: Generic Subprograms; Chapter 4: Sparse Matrices, Defined Operations, Overloaded Assignment; Chapter 5: Object-Oriented Programming for Numerical Applications; Chapter 6: Recursion in Fortran; Chapter 7: Case Study: Toward a Modern QUADPACK Routine; Chapter 8: Case Study: Quadrature Routine qag2003; Chapter 9: IEEE Arithmetic Features and Exception Handling; Chapter 10: Interoperability with C; Chapter 11: Defined Operations for Sparse Matrix Solutions; Chapter 12: Case Study: Two Sparse Least-Squares System Examples; Chapter 13: Message Passing with MPI in Standard Fortran; Chapter 14: Coarrays in Standard Fortran; Chapter 15: OpenMP in Fortran; Chapter 16: Modifying Source to

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