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Modern Fortran looks to be a fantastic language for Scientists and Engineers solving applied math and physics problems. It is very math oriented, unlike C/C++ which is geared more for non applied math algorithms. But, it is a slow slog to get into without a good reference. I'm going to try the Jeanne Adams, et al, Fortran 2003 Handbook.

~~Modern Fortran Explained (Numerical Mathematics and ...~~

Modern Fortran Explained Incorporating Fortran 2018. Fifth Edition. Michael Metcalf, John Reid, and Malcolm Cohen Numerical Mathematics and Scientific Computation. Authors on the committee that oversees the Fortran standard; Covers the entire language; Authoritative and

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This edition of Modern Fortran Explained expands on the last. Given the release of updated versions of Fortran compilers, the separate descriptions of Fortran 2003 and Fortran 2008 have been incorporated into the main text, which thereby becomes a unified description of the full Fortran 2008 version of the language.

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Modern Fortran explained: incorporating Fortran 2018 Cohen, Malcolm, Metcalf, Michael, Reid, John Ker Fortran is the principle language used in the fields of scientific, numerical and engineering programming. This latest edition reflects the continual revisions that the programme has undergone in order to meet industrial and academic demands.

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Modern Fortran Explained expands on its predecessor, Fortran 95/2003 Explained. The opening chapters contain a complete description of Fortran 95, extended by Fortran 2003 allocatable array features. Coverage of the other additional features of Fortran 2003 follows, before new chapters on coarrays and the many other

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enhancements of Fortran 2008.

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I am unable to get the "classic" list example in Modern Fortran Explained - Michael Metcalf, John Reid and Malcolm Cohen, Oxford University Press, 2011, ISBN 978-0199601417 to work with Intel Fortran; both compiler version 14 or 2015 Beta are able to compile the code ok, but encounter run-time errors as follows: The initial list has 0 items.

~~Object-oriented list example in "Modern Fortran Explained ...~~

A series of significant revisions to the standard versions of the language have progressively enhanced its capabilities and the latest standard, Fortran 2008, includes many modern features, such as object orientation, coarrays for parallel

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programming, interoperability with C and various other enhancements.

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Easy examples of scientific computing with modern, powerful, easy Fortran 2018 standard. Fortran 2018 began as the TS18508 extension, formerly known as Fortran 2015. Modern Fortran benefits from modern CMake, which supports Fortran features such as. submodule.

~~GitHub — seivision/fortran2018-examples: Fortran 2018 ...~~

Tutorials on Fortran in general. ZEN of Fortran: A Path to discover Modern Fortran by Stefano Zaghi; Ten minutes to Setup Modern Fortran 2003/2008 with CB IDE on Windows; Links to many tutorials; List of Fortran 90/95 tutorials at the Open Directory; Introduction to Advanced Fortran; Fortran 95 language features by Michael Metcalf.

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