

55 [12].—A. COLIN DAY, *Fortran Techniques, with Special Reference to Non-Numerical Applications*, Cambridge Univ. Press, Cambridge, England and New York, 1972, viii + 96 pp., 22 cm. Price \$3.95 paper bound, \$10.95 cloth.

For a great number of students who have taken a somewhat thorough course in Fortran—no matter how good the course—the result is often successful only from the point of view that the student has been exposed (at long last!) to the fundamental principles of computer programming and has hopefully learned most of the repertoire of the language. For many, if not most, instructors, this is sufficient. But there invariably are those students who have no difficulty whatever absorbing the material and who find themselves hampered from progressing further because of two reasons: (a) the lack of time for the instructor to cover more advanced material and (b) the unavailability of suitable textbooks to carry the students to the next plateau.

This pocket-size, paperback booklet by A. Colin Day is an excellent attempt to help fill this void. With hardly a single superfluous word, it covers a wide range of advanced topics—including packing numbers, printing histograms, open-coded subroutines, binary searches, hashing, stacks, recursion, various sorting techniques—to name just a few of the topics.

At the end of each of the nine chapters is a group of suitable exercises based on the material covered.

Many would justifiably consider this “must” reading for all students specializing in Computer Science.

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