

# Information on Computer Program Descriptions

**T**HIS SECTION of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES carries descriptions of computer programs which have specific relevance to the microwave art and are available to the microwave community. The purpose of Computer Program Descriptions is to provide a means by which microwave engineers may share useful computer programs with their colleagues.

Those wishing to contribute a Computer Program Description should observe the following constraints. The Computer Program Description should normally be no more than one published page (about 4 double-spaced typed pages) in length, including flow charts, illustrations, and references, if any. The program need not be original with the person submitting the Computer Program Description, but if not, permission for publication will be required from the originator.

Program listings for very brief programs may be published as part of the Computer Program Description. Longer program listings will be deposited by the Editor with the National Auxiliary Publications Service (NAPS) according to the following procedure.

1) When a manuscript has been accepted, the Editor will request the originator to submit the complete program listing (with program notes, flow diagrams, sample input and output, if desirable; up to 98 pages size 8½ by 11 inches each or smaller; or up to 49 pages size 14 by 11 inches each) along with a check for \$15.00 made payable to Microfiche Publications.

2) The Editor will deposit the material with NAPS, which will supply a document number and 10 microfiche copies, one of which will be retained by the IEEE TRANSACTIONS ON MTT, and the other 9 returned to the originator.

3) The following type of footnote will be published: "For program listing, order document NAPS— from ASIS National Auxiliary Publications Service, c/o Microfiche Publications, 305 E. 46th St., New York, N. Y. 10017; remitting in advance \$1.50 per microfiche or \$5.00 for photocopies up to 30 pages, 15¢ for each

additional page. Make checks payable to Microfiche Publications."

In addition, the originator may agree to duplicate the program on tape, cards, or other medium supplied by anyone requesting the program.

Two copies of the Computer Program Description manuscript and one complete, operable, and debugged program listing should be submitted to the Associate Editor of Computer Program Descriptions, who will see that it is reviewed for appropriateness and timeliness. The format for each Computer Program Description submitted should be as follows:

NAME: Acronym or other brief description.

PURPOSE: What the program does, in 25 words or less.

LANGUAGE: Preferably Fortran, Algol, or another recognized high-level compiler language.

AUTHOR: Name and address of person who *originated* the program.

SPONSOR: Name and address of person submitting the program, if different than author.

AVAILABILITY: "Listing included in this description" if sufficiently brief; otherwise, "NAPS—." Indicate whether other pertinent documents, instructions, or reports are filed with ASIS-NAPS. Also, if appropriate, include where and how other forms (cards, paper tape, etc.) of the program may be obtained.

DESCRIPTION: Give as much helpful information about the program and its uses as possible within the suggested limitation on length. Include such things as program capabilities and limitations, word-storage requirements, special I/O equipment, batch or time-sharing system on which program has been run, and other information useful to a potential user. It is desirable that a typical example be given, indicating accuracy, running time, and any special precautions.

*Submission:* Submit all program descriptions to Prof. John W. Bandler, Dep. Elec. Eng., McMaster Univ., Hamilton, Ontario, Canada.