An Invitation To Membership

There is no better time than now to join an IEEE technical Group/Society. Membership gives you ready access to meetings and conferences in your areas of interest, and to the prime movers in engineering, science, and business.

The Transactions and the Newsletter — both included in your Group/Society fee — keep you abreast of the latest developments in your field. And, as an IEEE member, you may choose from a wide offering of Standards, products and services (books, conference records, employment surveys, short courses, and other helpful aids) — all at greatly reduced member rates.

A GUIDE TO DUES AND FEES

Dues or Fees Payable

| 100% | | 100%* |
| 50% | |

J F M A M J J A S O N D

Date of receipt of application

* Includes dues for entire following year.

Payments Required

Admission Fee (only if not an IEEE member) . . . $10.00

Plus
50% ☐ or 100% ☐ of:

IEEE Membership Dues: for U.S.A. $45.00, for Canada $42.00, for elsewhere $35.00 . . . .
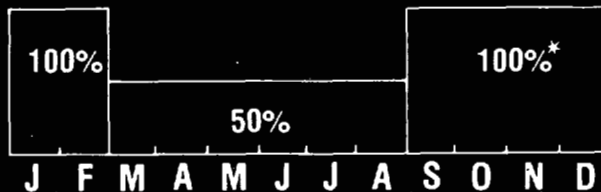
Group/Society Fee (see below) . . . . . .

Payment . . . . . . $
Keep this for your records.

If you are a student, see your IEEE counselor or write for Student Membership brochure.

Membership Application

◆IEEE   23-2

ANTENNAS AND PROPAGATION SOCIETY
FEE: $10.00 PER YEAR

Please check appropriate boxes:

Admission fee ☐ $ _____

Membership dues payments
50%☐ 100%☐
USA ☐ $ _____
Canada ☐ $ _____
Elsewhere ☐ $ _____

G/S fee ☐ $ _____

Payment encolsed $ _____

I am applying for the following as indicated:
☐ I am an IEEE member. Please enroll me in the above Group/Society.
IEEE member No.

☐ IEEE membership plus the above Group/Society membership.
☐ IEEE membership only.

Full signature   Date

First name (print)   Middle initial(s)   Last name

Street address

City   State/Country   Postal Code

**APPLICANTS FOR IEEE MEMBERSHIP
PLEASE COMPLETE THE FOLLOWING INFORMATION:**

Date of birth _____
Month   Day   Year   ☐ Male   ☐ Female

Were you ever a member of IEEE? ☐ Yes   If Yes, please furnish (if known):
☐ No
Grade   Membership No.

EDUCATION (Highest level completed)

Name of educational institution

Make check payable to IEEE.

Please mail to:
**IEEE Service Center
445 Hoes Lane
Piscataway, N.J. 08854**

Course   Degree received   Date

ENDORSEMENT (Signature of one IEEE member, who knows you professionally.)

Announcement of Special Issue on Inverse Methods in Electromagnetics

CALL FOR PAPERS

PAPERS are solicited for a special issue of this TRANSACTIONS to be devoted to inverse methods in electromagnetics. This special issue is intended to provide the background and recent advances in inverse methods that are used for the study of the radiation, propagation, and diffraction of electromagnetic waves. Papers describing recent theoretical, computational and experimental applications of inverse methods and correlations with established theories are invited. Suggested topics include novel aspects of inversion procedures applied to remote sensing, probing, imaging, target identification, scattering, and pattern synthesis. Also suggested are inversion techniques for aperture-limited and sparse data problems, and considerations of restrictedness, exactness, self-consistency, and uniqueness.

BACKGROUND

During the past decade considerable progress has been made in developing inverse methods useful in many physical sciences. The purpose of this special issue is to highlight the contributions made towards the electromagnetic sciences for which inverse methods have become of increasing importance. Thus a special issue is timely and appropriate for IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION.

The basic concept common to inverse methods in electromagnetics is that observed electromagnetic fields are used to obtain information about the scattering objects, or field sources, or propagating medium. This procedure is the *inverse* of the usual *direct* methods of analysis in which the target of sources are assumed *a priori* and the scattered fields are then determined. As with direct methods, there are various inverse methods for studying electromagnetic phenomena: exact, formal methods are mathematically exact and complete, but have only restricted applications.

Approximate methods use various physical and mathematical approximations to treat various problems. High-frequency approximations, data-processing methods, and optimization techniques are some approximate inverse methods.

Guest Editor: Dr. W. M. Boerner, Associate Guest Editor: Dr. A. K. Jordon

INSTRUCTIONS FOR AUTHORS

A one-page abstract of the proposed paper including the address and affiliation of the author(s) should be sent to the Guest Editor by October 15, 1979. The papers for this Special Issue will be selected from these abstracts and prospective authors will be notified by December 1, 1979. A complete manuscript of 15-20 pages including figures should be sent to the Guest Editor by April 15, 1980. Publication of this Special Issue is scheduled for the Spring of 1981. The address of the Guest Editor is

Dr. W. M. Boerner
Department of Information Engineering
University of Illinois at Chicago Circle
P. O. Box 4348
Chicago, IL 60680
(312) 996-5489