

Applied Computational Electromagnetics Society Journal



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1. The paper title should not be placed on a separate page. The title, author(s), abstract, and (space permitting) beginning of the paper itself should all be on the first page. The title, author(s), and author affiliations should be centered (center-justified) on the first page. The title should be of font size 14 and bolded, the author names should be of font size 12 and bolded, and the author affiliation should be of font size 10 (regular font, neither italic nor bolded).
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3. All section titles have to be centered and all the title letters should be written in caps. The section titles need to be numbered using roman numbering (I, II, ...).
4. Either British English or American English spellings may be used, provided that each word is spelled consistently throughout the paper.
5. Internal consistency of references format should be maintained. As a guideline for authors, we recommend that references be given using numerical numbering in the body of the paper (with numerical listing of all references at the end of the paper). The first letter of the authors' first name should be listed followed by a period, which in turn, followed by the authors' complete last name. Use a comma (,) to separate between the authors' names. Titles of papers or articles should be in quotation marks (" "), followed by the title of journal, which should be in italic font. The journal volume (vol.), issue number (no.), page numbering (pp.), month and year of publication should come after the journal title in the sequence listed here.
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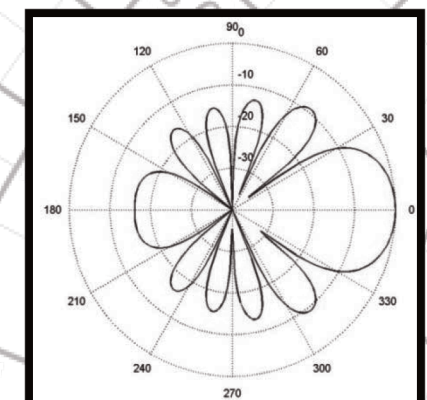
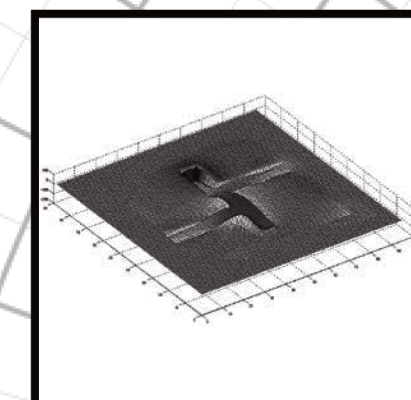
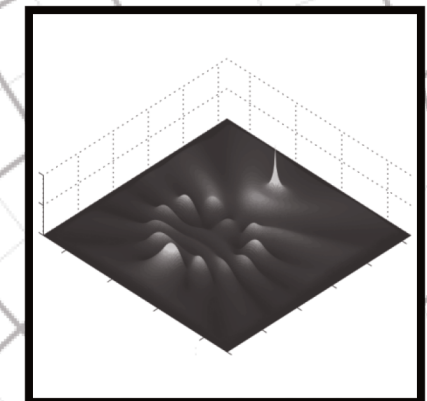
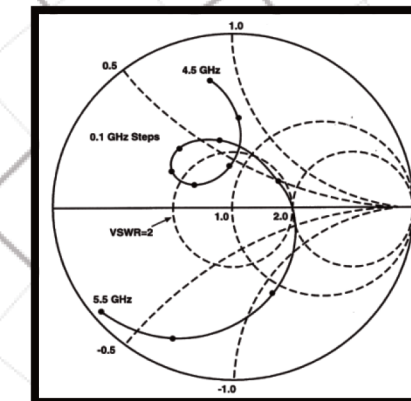
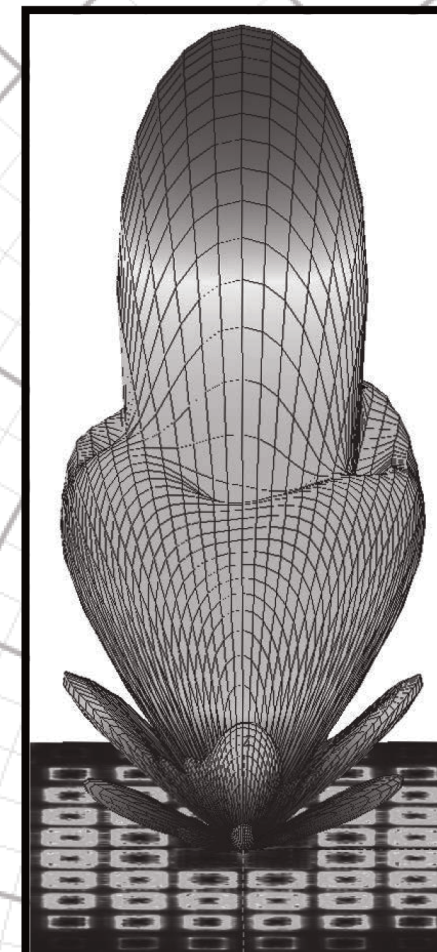
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INFORMATION FOR AUTHORS

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Each paper is required to manifest some relation to applied computational electromagnetics. **Papers may address general issues in applied computational electromagnetics, or they may focus on specific applications, techniques, codes, or computational issues.** While the following list is not exhaustive, each paper will generally relate to at least one of these areas:

- 1. Code validation.** This is done using internal checks or experimental, analytical or other computational data. Measured data of potential utility to code validation efforts will also be considered for publication.
- 2. Code performance analysis.** This usually involves identification of numerical accuracy or other limitations, solution convergence, numerical and physical modeling error, and parameter tradeoffs. However, it is also permissible to address issues such as ease-of-use, set-up time, run time, special outputs, or other special features.
- 3. Computational studies of basic physics.** This involves using a code, algorithm, or computational technique to simulate reality in such a way that better, or new physical insight or understanding, is achieved.
- 4. New computational techniques** or new applications for existing computational techniques or codes.
- 5. "Tricks of the trade"** in selecting and applying codes and techniques.
- 6. New codes, algorithms, code enhancement, and code fixes.** This category is self-explanatory, but includes significant changes to existing codes, such as applicability extensions, algorithm optimization, problem correction, limitation removal, or other performance improvement. **Note: Code (or algorithm) capability descriptions are not acceptable, unless they contain sufficient technical material to justify consideration.**
- 7. Code input/output issues.** This normally involves innovations in input (such as input geometry standardization, automatic mesh generation, or computer-aided design) or in output (whether it be tabular, graphical, statistical, Fourier-transformed, or otherwise signal-processed). Material dealing with input/output database management, output interpretation, or other input/output issues will also be considered for publication.
- 8. Computer hardware issues.** This is the category for analysis of hardware capabilities and limitations of various types of electromagnetics computational requirements. Vector and parallel computational techniques and implementation are of particular interest.

Applications of interest include, but are not limited to, antennas (and their electromagnetic environments), networks, static fields, radar cross section, inverse scattering, shielding, radiation hazards, biological effects, biomedical applications, electromagnetic pulse (EMP), electromagnetic interference (EMI), electromagnetic compatibility (EMC), power transmission, charge transport, dielectric, magnetic and nonlinear materials, microwave components, MEMS, RFID, and MMIC technologies, remote sensing and geometrical and physical optics, radar and communications systems, sensors, fiber optics, plasmas, particle accelerators, generators and motors, electromagnetic wave propagation, non-destructive evaluation, eddy currents, and inverse scattering.

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Where possible and appropriate, authors are required to provide statements of quantitative accuracy for measured and/or computed data. This issue is discussed in "Accuracy & Publication: Requiring quantitative accuracy statements to accompany data," by E. K. Miller, *ACES Newsletter*, Vol. 9, No. 3, pp. 23-29, 1994, ISBN 1056-9170.

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