

# Applied Physics Letters

Gilbert J. Perlow, Editor

David C. Hess and Thomas H. Braid, Associate Editors

Annette F. Korjenek, Assistant to the Editor

## Editorial Board

Term ending 31 December 1977

Hellmut Fritzsche  
Eric G. Lean  
Aldert van der Ziel

Term ending 31 December 1978

Frederick W. Crawford  
James E. Mercereau  
John R. Reitz

Term ending 31 December 1979

A.M. Clogston  
Amnon Yariv  
Fred W. Young, Jr.

**AIP EDITORIAL AND COMPOSITION STAFF:** Margaret Rose Pavin, *Editorial Supervisor*

Barbara Tompkins, *Assistant Supervisor*; Leon Benedict, *Composition Manager*

Adele Ruemer, *Chief Mechanical Artist*; Wallace Ross, *Senior Repr. Typist*; Bruce Williams, *Proofreader*

*Applied Physics Letters* is published semimonthly by the American Institute of Physics with the cooperation of the American Physical Society and the Optical Society of America. Its purpose is to provide rapid dissemination of new developments in fields regularly covered by the *Journal of Applied Physics*.

## Information for Contributors

Send manuscripts to Gilbert J. Perlow, Editor, *Applied Physics Letters*, Argonne National Laboratory, P.O. Box 296, Argonne, Ill. 60439. Unless otherwise stated, submission of a manuscript is a representation that it has not been copyrighted, published, or currently submitted for publication elsewhere.

Timeliness and current importance of the subject matter, and brevity and clarity of the presentation determine the acceptability of contributions. Feasibility studies and mere proposals for future research seldom meet the criteria for acceptability. Contributions lacking the element of urgency may be acceptable as Communications in the *Journal of Applied Physics*. Each Letter should be reasonably self-contained, and may on occasion be followed by a comprehensive report in the *Journal of Applied Physics* or elsewhere. Results of an extended research program should not be presented as a series of Letters in place of a comprehensive article.

AIP's **Physics Auxiliary Publication Service (PAPS)** is a low-cost depository for material which is part of and supplementary to a published paper, but is too long to be included in the journal; inquire of the Editor.

Manuscripts should normally be planned to occupy two journal pages or less, and must include an abstract limited to about 100 words. In addition to the title, abstract and references, two pages permit about 1800 words of text, reduced however by allowances for equations, tables, and figures. An average one-column figure with its caption will displace about 220 words of text. In some cases a longer manuscript may be justified, but a Letter may never exceed three journal pages. Authors are cautioned that discovery of excess length might not occur until a late stage in publication and would then result in delay and expense. Circumvention of the length limitation by division of a long article into smaller parts is considered to be contrary to the purposes of this journal.

Instructions for preparation of manuscripts will be found in the 1 January and 1 July issues of this journal and occasionally in later issues. In brief and incomplete summary: The manuscript and a duplicate including clear copies of the figures are required, double-spaced throughout, on 21.6 × 28 cm (8½ × 11 in.) paper. The abstract, references, figure captions, and tables are similarly to be double spaced each on its separate sheets. The original figures should be original line drawings or high-contrast glossy prints not larger than 21.6 × 28 cm. References should conform to the style used in AIP journals including this one. Unusual mathematical symbols should be clarified with marginal notes.

Proof and all correspondence concerning papers in the process of publication should be addressed to: Editorial Supervisor, *Applied*

*Physics Letters*, American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017. In all correspondence reference should be made to title, author, journal, and scheduled date of issue. A limited number of alterations in proof are unavoidable, but the cost of making extensive alterations after the article has been set in type will be charged to the author.

Subscription Prices (1977)	U.S.A., Canada, Mexico	Europe, Midwest, North Africa (optional air freight)	Foreign (surface mail)	Optional air freight Asia and Oceania
Members (affiliated and member societies) . . . . .	\$13.00	\$26.00	\$17.00	\$37.00
All others . . . . .	\$55.00	\$68.00	\$59.00	\$79.00

## Back-Number Prices. Single copies \$4.00

Microfilm Subscriptions of complete volumes of *Applied Physics Letters* are available on 16 mm and 35 mm. Volumes 1-27 (Sept. 1962-Dec. 1975) are available at a cost of \$275.00. The price for the complete year Jan.-Dec. 1976, Vols. 28 and 29, is \$50.00. *Applied Physics Letters* also appears on a monthly basis in *Current Physics Microform* (CPM) Section I (\$2100 per year) along with 24 other journals published by the American Institute of Physics and its member societies. *Applied Physics Letters* is indexed quarterly in *Current Physics Index*, a subject and author index (with abstracts) to all journals published by AIP or its member societies.

Subscriptions, renewals, address changes, and single-copy orders should be addressed to: Subscription Fulfillment Division, American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017. Allow at least six weeks advance notice. For address changes please send both old and new addresses, and, if possible, include an address-stencil imprint from the mailing wrapper of a recent issue. For your convenience a change of address form is included in every issue of *Physics Today*; please use it. Requests from subscribers for missing journal issues will be honored without charge only if received within six months of the issue's actual date of publication; otherwise, the issue may be purchased at the single copy price.

Reprints of individual articles in this journal may be ordered singly at \$0.25 per page (orders filled in 24 hours) from the American Institute of Physics, *Current Physics Reprints*, 335 East 45th Street, New York, N.Y. 10017. See order form in the back of this issue.

Copyright: All the material published in this journal is Copyright © 1977 by The American Institute of Physics, and all rights are reserved. Address inquiries to Director, Publications Division, American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017.