

# PHYSICAL REVIEW C

## NUCLEAR PHYSICS

Published by the  
American Institute of Physics  
for

The American Physical Society

### Officers

#### President

WILLIAM A. FOWLER  
California Institute of Technology

#### Vice-President

GEORGE E. PAKE  
Xerox Research Center

#### Vice-President Elect

NORMAN F. RAMSEY  
Harvard University

#### Executive Secretary

W. W. HAVENS, JR.  
Columbia University

#### Treasurer

JOSEPH A. BURTON  
Bell Telephone Laboratories

#### Managing Editor of The Physical Review

B. CHALMERS FRAZER  
Brookhaven National Laboratory

#### Regional Secretaries:

##### Central States

J. ERSKINE  
Argonne National Laboratory

##### Western States

WARD WHALING  
California Institute of Technology

##### Southwest and Mountain States

JOHN L. WARREN  
Los Alamos Scientific Laboratory

##### Southeastern States

L. W. SEAGONDOLLAR  
North Carolina State University

#### Secretary Emeritus

K. K. DARROW  
Bell Telephone Laboratories  
(retired)

#### Treasurer Emeritus

S. L. QUIMBY  
Columbia University

#### Office of the Society

The American Physical Society  
335 East 45th Street  
New York, N.Y. 10017

### Editor

H. H. BARSCHALL

### Associate Editors

G. J. DREISS     M. S. WEISS

**Manuscripts** for publication should be submitted to the Editor, *Physical Review*, Brookhaven National Laboratory, Upton, N. Y. 11973. The authors' institutions are requested to pay a publication charge of \$70 per page which, if honored, entitles them to 100 free reprints. An additional \$15 is requested for advance publication of the abstract in *Physical Review Abstracts*.

**Correspondence** concerning papers in the process of publication should be addressed as follows: Supervisor, Editorial Department, American Institute of Physics, SUNY, Bldg. 3, P.O. Box Q, Stony Brook, N.Y. 11790. Reference must be made to title, author, journal, and scheduled date of publication.

### Annual Subscription Prices

Subscription prices for American Physical Society members only are for the fiscal year July 1, 1975–June 30, 1976.

|                                        | No.<br>Issues | Domestic*    | Foreign<br>(Surface<br>Mail)** | Optional<br>Air<br>Freight<br>Europe | Optional<br>Air<br>Freight<br>Asia |
|----------------------------------------|---------------|--------------|--------------------------------|--------------------------------------|------------------------------------|
| Physical Review A                      | 12            | \$15.00 (60) | \$18.00 (65)                   | \$32.00 (75)                         | \$ 50.00 (88)                      |
| Physical Review B                      | 24            | 30.00 (120)  | 36.00 (130)                    | 68.00 (152)                          | 100.00 (180)                       |
| Physical Review C                      | 12            | 15.00 (60)   | 18.00 (65)                     | 38.00 (76)                           | 52.00 (89)                         |
| Physical Review D                      | 24            | 30.00 (120)  | 36.00 (130)                    | 58.00 (148)                          | 90.00 (170)                        |
| Physical Review<br>Index               | 2             | 3.50 (12)    | 4.00 (14)                      | 6.00 (16)                            | 8.00 (17)                          |
| Physical Review A,<br>B, C, D, & Index | 74            | 90.00 (360)  | 108.00 (390)                   | 196.00 (461)                         | 292.00 (527)                       |

The prices in parentheses are nonmember subscription prices (January–December 1976).

\*Domestic subscription rates apply to U.S. & Possessions, Canada, & Mexico.

\*\*Foreign surface mail subscription rates apply to countries not served by air freight not electing optional air freight.

**Back Number Price:** Single copies, \$7.00.

### Microfilm Subscription Prices

*Physical Review A-D* also appear on a monthly basis in *Current Physics Microform (CPM)* Section 1 (\$2100 per year) along with 24 other journals published by the American Institute of Physics and its member societies.

**Microfilm** subscriptions to *Physical Review A-D* (including indexes) are available on 16- and 35-mm film. Send orders and inquiries to: Dept. N/M, American Institute of Physics, 335 East 45th Street, New York, N. Y. 10017. *Physical Review C* individual microfilm prices (which include *PR Index*) are the following:

| Volumes | Dates | Prices  |
|---------|-------|---------|
| 1–2     | 1970  | \$64.00 |
| 3–4     | 1971  | 67.00   |
| 5–6     | 1972  | 63.00   |
| 7–8     | 1973  | 71.00   |
| 9–10    | 1974  | 58.00   |

**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.

**Copyright:** All the material published in this journal is copyright © 1976 by the American Physical Society. Permission is granted to quote from this journal in scientific articles, with the customary acknowledgment of the source. Reproduction of figures and tables is permitted provided that the author's consent is obtained and that the editorial office is notified. Reproduction of whole articles requires written permission of both author and the Managing Editor.

*Physical Review C* is published once a month (on the 1st of each month).  
Second-class postage rates paid at New York, N.Y. and additional mailing offices.