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DAT/324-0

Date: May 23, 1977  
 From: T.W. Burrows *TWB*  
 Subject: Cumulative Charged-Particle Reaction List (1948-1976)

As far as we have been able to ascertain, there are no plans to issue a final cumulative edition of the McGowan and Milner Reaction List. However, as the enclosed copies of an Academic Press brochure show, the 1948-1971 cumulation is available as Atomic and Nuclear Data Reprints, Volume 2, for \$18.00 and the four issues covering the period 1971 to 1976 are available as a set for \$20.00 (\$7.25 each).

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# Reaction List for Charged-Particle-Induced Nuclear Reactions, 1971-1976

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Edited by F. K. McGOWAN / W. T. MILNER  
*Oak Ridge National Laboratory*

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The Charged-Particle Reaction List makes it possible to discover quickly what nuclear reactions have been studied and by whom, and what quantities were measured in each study. The series covers the world literature from 1948 to 1976, and is now being discontinued. The results of 1948-1971, originally published in *Nuclear Data Tables* in the years 1969-1971, have been collated and published in book form as **CHARGED-PARTICLE REACTION LIST 1948-1971**, by F. K. McGowan and W. T. Milner, Atomic and Nuclear Data Reprints, Volume 2, Academic Press, 1973.

However, the issue of *Nuclear Data Tables* and three issues of *Atomic Data and Nuclear Data Tables* containing the lists covering the years 1971-1976 will *not* appear in book form. But they may be purchased as a unit to obtain the most recent lists and to supplement the book.

The list covers all reactions of the type  $A(a,b)B$ , where  $M_a \geq 1$  and  $b$  is not a meson. Under every such reaction which has been studied, the energy of particle  $a$ , the quantities measured, and the complete reference are given. The list thus makes it possible to discover quickly if certain cross sections, angular correlations, or gamma spectra, for example, have been measured and, if so, at what incident energies and by whom. There is no restriction on energy. Supplementing the main list are complete indexes for polarization, total-cross-section, and angular-correlation-between-emitted-particle data. Also, appendixes list reactions by projectile, residual nuclei and the reactions from which they result, fission, and Coulomb-excitation reactions. This Reaction List series thus makes instantly locatable various types of reaction data reported in the world literature over the past 28 years.

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# Charged-Particle Reaction List 1948-1971

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Edited by F. K. McGOWAN

W. T. MILNER

Charged-Particle Cross-Section Data Center  
Oak Ridge National Laboratory  
Oak Ridge, Tennessee

Volume Two of

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Edited by KATHARINE WAY

Department of Physics  
Duke University, Durham, North Carolina

1973, 568 pp., \$18.00/£12.80  
ISBN: 0-12-738902-4

This reaction list for charged-particle-induced reactions was prepared from the journal literature for the period from 1948 through June 1971. The data are systematically organized for easy access, and the book includes new indexes and appendices.

## CONTENTS:

### INTRODUCTION

Scope and Organization. Policies. Abbreviations, Symbols, and Definitions. Examples of Reaction and Cross-Section Notation.

### REACTION LIST FOR CHARGED-PARTICLE-INDUCED NUCLEAR REACTIONS INDEXES

A: Polarization Data. B: Total Reaction Cross-Section Data. C: Angular Correlation Data (for correlations between emitted particles).

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