

Extended optical model analyses of  
elastic scattering and fusion cross sections  
for  $^{6,7}\text{Li} + ^{208}\text{Pb}$  systems  
at near-Coulomb-barrier energies  
by using a folding potential

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W. Y. So, T. Udagawa (University of Texas at Austin)  
K. S. Kim (Hankuk Aviation University)  
B. T. Kim, S.W.H (Sung Kyun Kwan University)

# Optical Model Of Elastic Scattering

**Richard Nelson Thomas, Edward James  
Burge, Peter Edward Hodgson**

## Optical Model Of Elastic Scattering:

**The Optical Model of Elastic Scattering** Peter Edward Hodgson,1963    *The Nucleon Optical Model* Peter Edward Hodgson,1994 The nucleon optical model is widely used to calculate the elastic scattering cross sections and polarisations for the interaction of neutrons and protons with atomic nuclei The optical model potentials not only describe the scattering but also provide the wave functions needed to analyse a wide range of nuclear reactions They also unify many aspects of nuclear reactions and nuclear structure This book consists of a comprehensive introduction to the subject and a selection of papers by the author describing the optical model in detail It contains full references to the original literature with many examples of the application of the model to the analysis of experimental data

### **A Fortran Program for Elastic Scattering**

**Analyses with the Nuclear Optical Model** Michel A. Melkanoff,1961    A Fortran Program for Elastic Scattering Analyses with the Nuclear Optical Model ,1961

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**HODGSON.** Peter E. Hodgson,1963    The Optical Model as a Description of Elastic Scattering in the 12C - 12C System

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Optical Model Analysis of the Elastic Scattering of 12.29 MeV Protons by Cu63 and Cu65 Richard Nelson Thomas,Edward James Burge,Peter Edward Hodgson,1964    A FORTRAN Program for Analysis of Spin Zero Elastic Scattering with the Nuclear Optical Model Charles C. Giamati,W. Tobocman,D. V. Renkel,1964    **Optical Model of High-energy Elastic Scattering at 180°** V. S. Stavinskij,1967    **An optical model approach to the elastic scattering of electrons by H (2s).** C. J. Joachain,K. H. Winters,1979    A Fortran Program for Elastic Scattering Analyses with the Nuclear Optical Model

DAVID. G. CANTOR,Michel A Melkanoff,2025-08-12 Unlock the mysteries of nuclear interactions with A Fortran Program for Elastic Scattering Analyses with the Nuclear Optical Model a groundbreaking work that has been out of print for decades and is now lovingly republished by Alpha Editions This remarkable edition has been meticulously restored for today s and future generations making it not just a reprint but a collector s item and a cultural treasure Dive into the world of computational physics as you explore advanced Fortran techniques designed for elastic scattering analysis This book serves as an invaluable resource for both seasoned researchers and budding physicists offering insights into the intricacies of elastic scattering theory and the nuclear optical model Whether you re engaged in academic research or simply fascinated by the data analysis in physics this volume provides essential tools for understanding complex nuclear interactions With its unique blend of scientific rigor and literary significance this edition appeals to casual readers and classic literature collectors alike The legacy of this work lies not only in its technical contributions but also in its role as a bridge between past and present scientific inquiry Don t miss your chance to own a piece of history that continues to inspire and educate Embrace the excitement of scientific discovery and add this essential title to your collection today    **Optical Model Calculations for**

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