

# NEW USES OF ION ACCELERATORS

EDITED BY JAMES F. DECKER

# New Uses Of Ion Accelerators

**AW Chickering**



## **New Uses Of Ion Accelerators:**

**New Uses of Ion Accelerators** James Ziegler, 2012-12-06 The use of ion accelerators for purposes other than nuclear physics research has expanded to the point where other uses are now the most typical. The point has been reached where there are as many ion accelerators in industry as in universities and the bulk of new accelerator purchases appears to be for applied purposes. We mention this as introduction to a tribute to an earlier book *New Uses of Low Energy Accelerators* 1968. The authors of this book were almost all nuclear physicists. This book addressed itself to new uses other than nuclear research. And in great part because of the widespread seminal influence of this book many of the new uses discussed became mature fields of research with their own conferences and publications. We have attempted in this book to both update with topics not included in the first book and to present in a more tutorial and detailed manner the topics discussed. This book is in many ways a joint book. All chapters were the result of considerable collaboration between the authors. We hope that above all we have written with clarity. We welcome comments and questions from any reader. James F Ziegler IBM Research v

**CONTENTS CHAPTER 1 Ion Excited X Ray Analysis of Environmental Samples** Thomas A Cahill I Introduction **New Uses of Ion Accelerators** James Ziegler, 2012-03-19 The use of ion accelerators for purposes other than nuclear physics research has expanded to the point where other uses are now the most typical. The point has been reached where there are as many ion accelerators in industry as in universities and the bulk of new accelerator purchases appears to be for applied purposes. We mention this as introduction to a tribute to an earlier book *New Uses of Low Energy Accelerators* 1968. The authors of this book were almost all nuclear physicists. This book addressed itself to new uses other than nuclear research. And in great part because of the widespread seminal influence of this book many of the new uses discussed became mature fields of research with their own conferences and publications. We have attempted in this book to both update with topics not included in the first book and to present in a more tutorial and detailed manner the topics discussed. This book is in many ways a joint book. All chapters were the result of considerable collaboration between the authors. We hope that above all we have written with clarity. We welcome comments and questions from any reader. James F Ziegler IBM Research v

**CONTENTS CHAPTER 1 Ion Excited X Ray Analysis of Environmental Samples** Thomas A Cahill I Introduction New Uses for Low-energy Accelerators National Research Council (U.S.). Ad Hoc Panel on New Uses for Low-Energy Accelerators, 1968 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977 **Low Energy Particle Accelerator-Based Technologies and Their Applications** Vlado Valković, 2022-06-22 Low Energy Particle Accelerator Based Technologies and Their Applications describes types of low energy accelerators presents some of the main manufacturers illustrates some of the accelerator laboratories around the globe and shows examples of successful transfers of accelerators to needed laboratories Key Features Presents new trends and the state of the art in a field that is growing Provides an overview of numerous applications of such accelerators in medicine industry earth sciences nuclear non

proliferation and oil. Fills a gap with the author drawing on his own experiences with transporting such relatively large machines from one lab to the other that require a tremendous amount of planning, technical and engineering efforts. This is an essential reference for advanced students as well as for physicists, engineers and practitioners in accelerator science.

About the Author: Dr. Vladivoj Vlado Valkovi, a retired professor of physics, is a fellow of the American Physical Society and the Institute of Physics, London. He has authored 22 books from *Trace Elements* (Taylor Francis, 1975) to *Radioactivity in the Environment* (Elsevier, 1st Edition 2001, 2nd Edition 2019) and more than 400 scientific and technical papers in the research areas of nuclear physics, applications of nuclear techniques to trace element analysis in biology, medicine and environmental research. He has lifelong experience in the study of nuclear reactions induced by 14 MeV neutrons. This research has been done through coordination and works on many national and international projects including US-Croatia bilateral, NATO, IAEA, EU FP5, FP6 and FP7 projects. Cover photo credit: 3SDH 1 MV Pelletron system with RF source and analysis endstation designed with the intended purpose of aiding in fusion research. It is capable of Ion Beam Analysis (IBA) techniques such as RBS, ERD, PIXE and NRA. Further detectors could be added to the endstation to allow for other techniques. Installed in Japan in 2014. Courtesy of National Electrostatics Corp.

**ERDA Energy Research Abstracts**, United States. Energy Research and Development Administration. Technical Information Center, 1977.

**Ion-solid Interactions**, Walter M. Gibson, Henry H. Teitelbaum, 1980.

*Particle Accelerators and Their Uses*, Waldemar Scharf, 1986.

*Ion Beams for Materials Analysis*, J. R. Bird, J. S. Williams, 1989. The use of ion beams for materials analysis involves many different ion-atom interaction processes which previously have largely been considered in separate reviews and texts. A list of books and conference proceedings is given in Table 2. This book is divided into three parts: the first which treats all ion beam techniques and their applications in such diverse fields as materials science, thin film and semiconductor technology, surface science, geology, biology, medicine, environmental science, archaeology and so on.

**Report of the Ad Hoc Panel on Accelerator-Related Atomic Physics Research**, National Research Council (U.S.). Ad Hoc Panel on Accelerator-Related Atomic Physics Research, 1976.

*Ion-solid Interactions: Bibliography*, Walter M. Gibson, 1980.

**Materials Analysis by Ion Channeling**, Leonard C. Feldman, James W. Mayer, Steward T.A. Picraux, 1982-11-28. Our intention has been to write a book that would be useful to people with a variety of levels of interest in this subject. Clearly it should be useful to both graduate students and workers in the field. We have attempted to bring together many of the concepts used in channeling beam analysis with an indication of the origin of the ideas within fundamental channeling theory. The level of the book is appropriate to senior undergraduates and graduate students who have had a modern physics course, work in related areas of materials science and wish to learn more about the channeling probe, its strengths, weaknesses and areas of further potential application. To them we hope we have explained this apparent paradox of using mega-electron volt ions to probe solid state phenomena that have characteristic energies of electron volts.

**Mechanical Engineering**, American Society of Mechanical Engineers, 1947.

**U.S. Government Research & Development Reports** ,1970      **Boeing Magazine** ,1961      *Handbook on Semiconductors* Trevor Simpson Moss,Minko Balkanski,1980 V 1 t 86 00217 Band theory and transport properties editor William Paul v 2 t 86 00284 Optical properties of solids editor Minko Balkanski v 3 t 86 00218 Materials properties and preparation editor Seymour P Keller v 4 t 86 00219 1985 Device physics editor Cyril Hilsum      **Annual Report - National Academy of Sciences** National Academy of Sciences (U.S.),1969      **Report of the National Academy of Sciences for the Year ...** National Academy of Sciences (U.S.),1968      **Scanning Electron Microscopy** Om Johari,Robert P. Becker,1978-12 Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops      **Government Reports Announcements & Index** ,1991

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