# Particle Accelerator Design Computer Programs

**Month,Dienes**

**Particle Accelerator Design Computer Programs:**

*Particle Accelerator Design: Computer Programs* John Colonias,2012-12-02 Particle Accelerator Design Computer Programs describes some of the most important computer programs applicable to the design of particle accelerators Computer programs that calculate magnetic and electric fields are considered along with programs that calculate orbits of particles in a magnetic and or electric field Some representative programs useful in the design of linear accelerator type cavities are also discussed This book is comprised of six chapters and begins with a review of two dimensional magnetostatic programs including TRIM LINDA NUTCRACKER MAREC GRACY and COILS The University of Colorado s magnet program is also examined The next chapter is devoted to programs capable of solving problems relating to the calculation of electrostatic fields in two dimensional geometries The reader is also introduced to programs that perform calculations of three dimensional linear and nonlinear problems along with programs that employ matrix formalism and integration of equations of motion The final chapter looks at programs for linear accelerator type cavities including CURE JESSY MESSYMESH and AZTEC This monograph will be a useful resource for physical scientists engineers and computer programmers    **Particle Accelerator Design** John Colonias,2012 Particle Accelerator Design Computer Programs

*Physics of Particle Accelerators* Margaret Dienes,1989    Physics of Particle Accelerators Melvin Month,Margaret Dienes,1989 Particle accelerator physicists nuclear and particle physicists    **Nuclear Science Abstracts** ,1974

**Arpanet Resources Handbook** ,1978    **Computing in Accelerator Design and Operation** W. Busse,R. Zelazny,1984-12    *The Design of the MAD Design Program* ,1992 The study of long term stability in particle accelerators has long been served by a group of widely circulated computer programs The progress in these programs has mirrored the growth and versatility in accelerator size complexity and purpose as well as evolving technologies in computing software and hardware A number of large accelerator projects during the last decade were designed with the aid of physics programs either written for or tailored for the project at hand each invariably benefiting from contributions of previous workers This paper outlines the recent history of of expample of an accelerator lattice model tool kit the Methodical Accelerator Design MAD Program which has tried to knit together this collective wisdom of the accelerator community The ideas behind the software design of the program itself are traced here the accelerator physics contents and origins are thoroughly documented elsewhere These informal notes have a Brookhaven flavor in part because of early BNL efforts to generalize the ways that technical problems are organized and presented to computers Some recent BNL applications not covered in the extensive CERN documentation are also included    *The Physics of Particle Accelerators* Month,Dienes,1999-06-04

*Proceedings of the 1997 Particle Accelerator Conference* Martin Comyn,1998    **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored

information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes     **Library of Congress Catalog** Library of Congress,1970 A cumulative list of works represented by Library of Congress printed cards     **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994     Library of Congress Catalogs Library of Congress,1976     **Proceedings of the 1999 Particle Accelerator Conference** ,1999     *Advanced Accelerator Concepts* Jonathan S. Wurtele,1993 This Proceedings contains the papers presented at the 3rd Workshop on Advanced Accelerators Some of the topics include laser and particle beam wakefield acceleration plasma lenses ion channel transport high power RF sources two beam accelerators beam beam interaction FROM LONG DESCRIPTION     **Proceedings** Stuart Turner,1995     **CERN.** ,1995     **U.S. Government Research & Development Reports** ,1970     **INIS Atomindex** ,1988

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