

# Introduction to ELECTRON AND ION OPTICS

Poul Dahl



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# Introduction To Electron And Ion Optics Poul Dahl

**AW Rasmussen**



## **Introduction To Electron And Ion Optics Poul Dahl:**

**Introduction to Electron and Ion Optics** Poul Dahl, 2012-12-02 Introduction to Electron and Ion Optics provides the theoretical background needed to understand the subject matter and even be helpful in laboratory works Seven major parts comprise the book where each focuses on a certain aspect or field The book begins with an introduction to the general principles about electron and ion optics specifically as basis for the design of the optical components used in particle analyzers and accelerators The following parts tackle different aspects such as geometrical optics scaling rules and dispersion coefficients fields paraxial sector fringing quadrupole lenses electrostatic immersion unipotential etc analyzers electrostatic spherical etc and space charge and beam production Towards the last part of the book there is an exercises section where various problems are given for the reader to answer This book caters to students specifically in the field of physics

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possible in as small a volume as possible Fabrication of microcircuits is a good example of the growing importance of this field The current trend is towards increased circuit complexity and pattern density Because of the diffraction limitation of processes using optical photons and the technological difficulties connected with x ray processes charged particle beams are becoming popular With them it is possible to write directly on a wafer under computer control without using a mask Focused ion beams offer especially great possibilities in the submicron region Therefore electron and ion beam technologies will most probably play a very important role in the next twenty years or so

Immerse yourself in heartwarming tales of love and emotion with is touching creation, Tender Moments: **Introduction To Electron And Ion Optics Poul Dahl** . This emotionally charged ebook, available for download in a PDF format ( PDF Size: \*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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