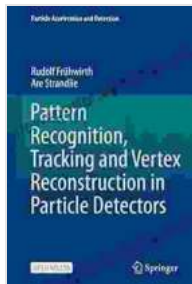


Pattern Recognition, Tracking, and Vertex Reconstruction in Particle Detectors



Pattern Recognition, Tracking and Vertex Reconstruction in Particle Detectors (Particle Acceleration and Detection) by Joanna Sayago Golub

★★★★★ 5 out of 5

Language : English
File size : 29691 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 289 pages



This book provides a comprehensive overview of pattern recognition, tracking, and vertex reconstruction in particle detectors. It covers the basic principles of these techniques, as well as the latest advances in the field.

The book is written for graduate students and researchers in particle physics, and it can also be used as a reference for engineers and physicists working on the design and construction of particle detectors.

The book is divided into three parts.

- Part I covers the basics of pattern recognition, including feature extraction, clustering, and track finding.

- Part II covers the basics of tracking, including Kalman filtering and track fitting.
- Part III covers the basics of vertex reconstruction, including vertex fitting and vertex association.

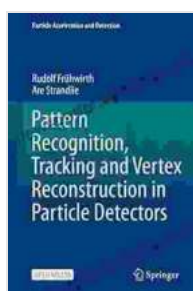
The book also includes a number of appendices that provide additional information on the topics covered in the main text.

Table of Contents

- Part I: Pattern Recognition
 - Chapter 1:
 - Chapter 2: Feature Extraction
 - Chapter 3: Clustering
 - Chapter 4: Track Finding
- Part II: Tracking
 - Chapter 5:
 - Chapter 6: Kalman Filtering
 - Chapter 7: Track Fitting
- Part III: Vertex Reconstruction
 - Chapter 8:
 - Chapter 9: Vertex Fitting
 - Chapter 10: Vertex Association

- Appendices
 - Appendix A: Mathematical Background
 - Appendix B: Particle Physics Background
 - Appendix C: Detector Technology

This book is a valuable resource for anyone interested in the field of particle detection. It provides a comprehensive overview of the basic principles of pattern recognition, tracking, and vertex reconstruction, as well as the latest advances in the field.

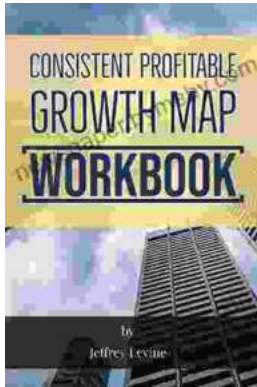


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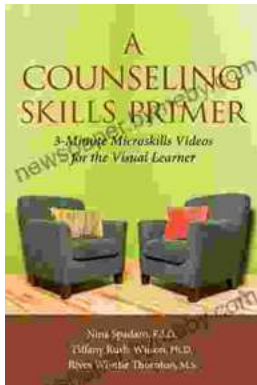
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