

1. Record Nr.	UNINA9910682537303321
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Titolo	Polarized Beam Dynamics and Instrumentation in Particle Accelerators : USPAS Summer 2021 Spin Class Lectures / / edited by François Méot, Haixin Huang, Vadim Ptitsyn, Fanglei Lin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-16715-5
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XX, 408 p. 1 illus.)
Collana	Particle Acceleration and Detection, , 2365-0877
Classificazione	COM032000SCI051000
Disciplina	539.7
Soggetti	Nuclear physics Spintronics Nuclear and Particle Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Past, Present, and Future of Polarized Hadron Beams (Thomas Roser) -- Chapter 2. Spin Dynamics (François Méot) -- Chapter 3. Spinor Methods (François Méot) -- Chapter 4. Rotators and Snakes (Vadim Ptitsyn) -- Chapter 5. Polarization Preservation and Spin Manipulation (Haixin Huang) -- Chapter 6. Electron Polarization (Fanglei Lin) -- Chapter 7. Spin Matching (Vadim Ptitsyn) -- Chapter 8. Polarization in a GeV RLA (Yves Roblin) -- Chapter 9. Spin Codes (Vahid Ranjbar) -- Chapter 10. Polarized Ion Sources (Anatoli Zelenski) -- Chapter 11. Polarized Electron Sources (Joe Grames) -- Chapter 12. Ion Polarimetry (William Schmidke) -- Chapter 13. Electron Polarimetry (Dave Gaskell) -- Chapter 14. Spin Dynamics Tutorial: Numerical Simulations (Kiel Hock).
Sommario/riassunto	This Open Access book is drawn from lectures dispensed at the U.S. Particle Accelerator School (USPAS) Summer 2021 Spin Class, by experts in the field. It is an introduction to the dynamics of spin in charged particle accelerators, and to the accelerator components and spin manipulation techniques, including helical snakes and spin rotators, which enable and allow preserving beam polarization. It is aimed at graduate students or upper division undergraduate students with an interest in this multi-disciplinary field, which includes the future

electron-ion collider at the Brookhaven National Laboratory, high energy lepton and proton collider projects, and other electric dipole moment search storage rings. It is also aimed at physicists or engineers working in accelerator-related fields who wish to familiarize themselves with spin dynamics and polarized beam concepts, tools, components, and purposes.
