

Lawrence Berkeley National Laboratory

Recent Work

Title

Polarization of Radiation From Insertion Device Sources

Permalink

<https://escholarship.org/uc/item/1c1127fn>

Author

Kim, K.-J.

Publication Date

1989-12-01

Polarization of Radiation From Insertion Device Sources,* Kwang-Je Kim, Lawrence Berkeley Laboratory, 1 Cyclotron Road, Berkeley, CA 94720--Synchrotron radiation is inherently highly polarized and is thus useful in studying the polarization sensitive phenomena such as circular dichroism and magnetic scattering. The opportunity to utilize the polarization degree of freedom in synchrotron radiation is further expanded recently with the novel types of wigglers and undulators specially designed to obtain the desired polarization properties. In this paper, we review the principles and characteristics of these devices.

- * This work was supported by the Director, Office of Energy Research, Office of Basic Energy Sciences, Materials Sciences Division, of the U.S. Department of Energy under Contract No. DE-AC03-76SF00098.

Abstract submitted to the SPIE's 1990 International Symposium on Optical & Optoelectronic Applied Science and Engineering, 8-13, July, 1990, San Diego, CA.