

Design Considerations and Field Performances of the First In-House Constructed 2 m Undulator U10P/SRRC, C.H. CHANG, L.H. CHANG, P. CHANG, H.H. CHEN, T.C. FAN, C.S. HWANG, J.Y. HSU, C.C. KUO, F.Y. LIN, T.F. LIN, Y.C. LIU, P.K. TSENG, CH. WANG, C.J. WANG, and S.T. YEH, SRRC, Hsinchu, Taiwan, R.O.C. - A Halbach type hybrid undulator U10P with 10 cm period length was constructed in-house and installed in the storage ring of SRRC in October, 1995. The commissioning is in progress. The first harmonic undulator spectra radiated from U10P cover, as the ring operated at 1.3 GeV machine energy, the photon energy from 5 to 100 eV to be dedicated for the study of the chemical dynamic, etc. Here, the design considerations as well as field performances of this 2-metre device will be reported.