

Abstracts

Sir J.C. Bose and radio science

A.K. Sen. "Sir J.C. Bose and radio science." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 557-560.

Sir J.C. Bose's pioneering works in quasi-optic millimeter wave research in Calcutta, India about 100 years back during 1890s are highlighted. He developed an elegant millimeter wave spark transmitter, self recovering coherer detector, wire grid polariser, cylindrical diffraction grating, dielectric lens and prism, rectangular waveguide, horn antenna and microwave absorber, for the studies of reflection, refraction, absorption and polarisation of millimeter waves and its application to wireless remote control for firing a gun. All these pioneering activities indicate that he was well ahead of his time and prompted us to call him the father of Radio Science.

 [Return to main document.](#)