

Abstracts

The work of Jagadis Chandra Bose: 100 years of millimeter-wave research

D.T. Emerson. "The work of Jagadis Chandra Bose: 100 years of millimeter-wave research." 1997 Transactions on Microwave Theory and Techniques 45.12 (Dec. 1997, Part II [T-MTT] (1997 Symposium Issue)): 2267-2273.

Just 100 years ago, J.C. Bose described to the Royal Institution, London, U.K., his research carried out in Calcutta, India, of millimeter wavelengths. He used waveguides, horn antennas, dielectric lenses, various polarizers, and even semiconductors at frequencies as high as 60 GHz. Much of his original equipment is still in existence, currently at the Bose Institute, Calcutta, India. Some concepts from his original 1897 papers have been incorporated into a new 1.3-mm multibeam receiver now in use on the National Radio Astronomy Observatory (NRAO) 12-m telescope.

 [Return to main document.](#)