Design and Simulation of Cavity and RF Section for High Power (CW) Klystron

Abstract

The re-entrant cavity for 350MHz, 100kW (CW) power klystron has been designed. Analytical methods and different CAD tools such as CST Microwave Studio & SUPERFISH have been used for designing the cavity. Then AJDISK code has been used for the design of RF section. In this paper the authors are presenting the optimized design parameters and simulation results.

References

- "The Effect of Space Charge on Bunching in a Two-Cavity Klystron", G. MIHRAN
- SLAC klystron lectures series; www. slac. stanford. edu

Index Terms

Computer Science
Telecommunications
Keywords
Klystron  Cavity  Rf Section