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Design and simulation of an electron gun for electron linacs

Monday 2 June 2025 16:00 (2 hours)

The electron gun is a crucial component of various vacuum electronic devices, including electron accelerators and electron microscopes. Prior to fabrication, designing and optimizing its geometry is a critical step to ensure optimal performance. In this study, the design and simulation of an electron gun for a linear electron accelerator are presented. The influence of key parameters on the electron gun's performance is analyzed.

Footnotes

Paper preparation format

Word

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