

## Using Paschen curves to determine DC plasma sputtering conditions

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DC sputtering is a common method of depositing a thin layer of metal onto a substrate; various applications make use of thin metal deposition such as metal plating seed, electron microscopy sample prep.



Source: Electron Microscopy Sciences

Debye length for given electrical power parameters dictate dimensions of chamber

Table top sputter coaters typically operate in reduced pressure **air**

- Optimizing DC plasma power with specific metal targets
- Target lifetimes increased by different target motion regimes