



# Nucleation and Growth of Metals: From Thin Films to Nanoparticles

*Paul-Henri Haumesser*

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**Nucleation and Growth of Metals: From Thin Films to Nanoparticles** Paul-Henri Haumesser

Nucleation and Growth of Metals: From Thin Films to Nanoparticles explores how nucleation and growth phenomena condition the morphology and related characteristics of metallic thin films and nanoparticles to help control the functional properties of these objects.

The book brings a rigorous theoretical approach to nucleation and growth phenomena, with a particular focus on the essential aspects and outcomes of this theory. The author explores a general framework for the nucleation and growth of condensed phases from liquid solutions. Practical situations are extensively described, providing state-of-the art information on Cu electroplating and related processes for the fabrication of advanced interconnects and elaboration of metallic nanoparticles.

- Derives the basic equations of nucleation from fundamental thermodynamic and kinetic relations
- Explores the main outcomes of a range of nucleation theories
- Features practical examples to further develop the theoretical aspects
- Provides state-of-the art information on Cu electroplating and related processes for the fabrication of advanced interconnects and elaboration of metallic nanoparticles

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