



# **Materials Science in Microelectronics II: The effects of structure on properties in thin films: 2**

*Eugene Machlin*

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The subject matter of thin-films - which play a key role in microelectronics - divides naturally into two headings: the processing / structure relationship, and the structure / properties relationship.


Part II of 'Materials Science in Microelectronics' focuses on the latter of these relationships, examining the effect of structure on the following:

- Electrical properties
- Magnetic properties
- Optical properties
- Mechanical properties
- Mass transport properties
- Interface and junction properties
- Defects and properties

\* Captures the importance of thin films to microelectronic development

\* Examines the cause / effect relationship of structure on thin film properties

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