



## **Printed Films: Materials Science and Applications in Sensors, Electronics and Photonics (Woodhead Publishing Series in Electronic and Optical Materials)**

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# Printed Films: Materials Science and Applications in Sensors, Electronics and Photonics (Woodhead Publishing Series in Electronic and Optical Materials)

## Printed Films: Materials Science and Applications in Sensors, Electronics and Photonics (Woodhead Publishing Series in Electronic and Optical Materials)

Whilst printed films are currently used in varied devices across a wide range of fields, research into their development and properties is increasingly uncovering even greater potential. Printed films provides comprehensive coverage of the most significant recent developments in printed films and their applications.

Materials and properties of printed films are the focus of part one, beginning with a review of the concepts, technologies and materials involved in their production and use. Printed films as electrical components and silicon metallization for solar cells are discussed, as are conduction mechanisms in printed film resistors, and thick films in packaging and microelectronics. Part two goes on to review the varied applications of printed films in devices. Printed resistive sensors are considered, as is the role of printed films in capacitive, piezoelectric and pyroelectric sensors, mechanical micro-systems and gas sensors. The applications of printed films in biosensors, actuators, heater elements, varistors and polymer solar cells are then explored, followed by a review of screen printing for the fabrication of solid oxide fuel cells and laser printed micro- and meso-scale power generating devices.

With its distinguished editors and international team of expert contributors, Printed films is a key text for anyone working in such fields as microelectronics, fuel cell and sensor technology in both industry and academia.

- Provides a comprehensive analysis of the most significant recent developments in printed films and their applications
- Reviews the concepts, properties, technologies and materials involved in the production and use of printed films
- Analyses the varied applications of printed films in devices, including printed restrictive sensors for physical quantities and printed thick film mechanical micro-systems (MEMS), among others

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