

Applied Physics

Volume 32 Number 17 7 September 1999

Review article: Electromigration in integrated circuit conductors

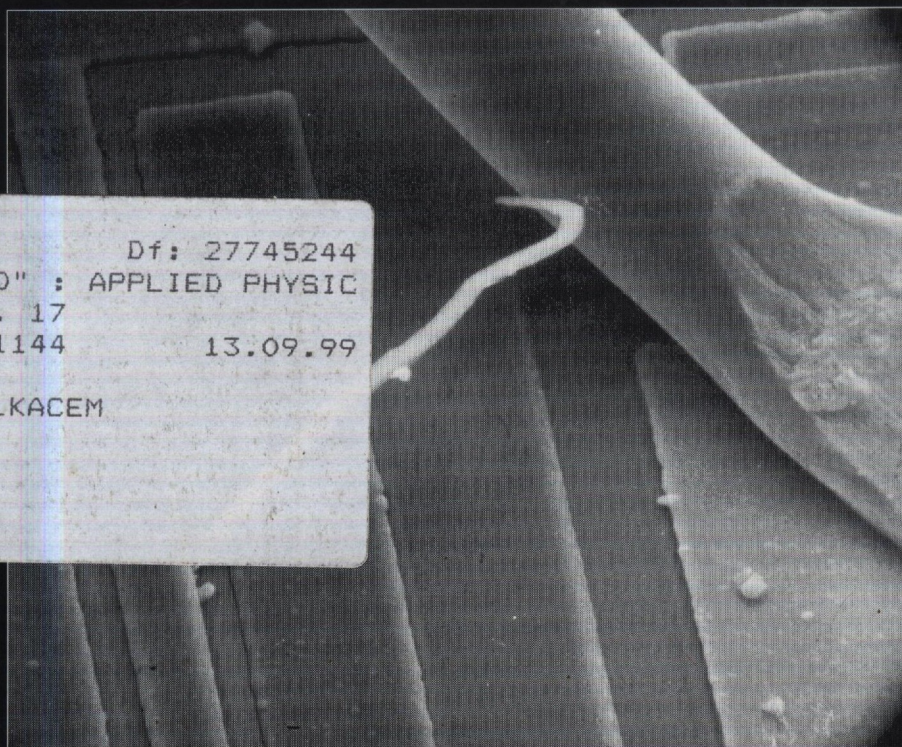
J R Lloyd

Online: www.iop.org

A Journal Recognized by
The European Physical Society



Ref: C 2 PF 171198/01 Df: 27745244
JOURNAL OF PHYSICS ("D" : APPLIED PHYSIC
07.09.99 Vol. 32 No. 17
0022-3727 22101144 13.09.99
LIBRIS
144 BOULEVARD KRIM BELKACEM
ALGER
ALGERIE



RAPID COMMUNICATIONS

- L83 High surface-charge stability of porous polytetrafluoroethylene electret films at room and elevated temperatures**

Zhongfu Xia, R Gerhard-Multhaupt, W Künstler, A Wedel and R Danz

REVIEW ARTICLE

- R109 Electromigration in integrated circuit conductors**
J R Lloyd

PAPERS

APPLIED INTERFACES AND SURFACES

- 2141 Effect of oxygen to argon ratio on defects and electrical conductivities in $\text{Ba}_{0.47}\text{Sr}_{0.53}\text{TiO}_3$ thin-film capacitors**
M S Tsai and T Y Tseng

- 2146 Optical generation rate of electron-hole pairs in multilayer thin-film photovoltaic cells**
J S C Prentice

APPLIED MAGNETISM AND MAGNETIC MATERIALS

- 2151 Electrical and magnetic studies of the spinel system $\text{Li}_{0.5+t}\text{Cr}_x\text{Sb}_t\text{Fe}_{2.5-x-2t}\text{O}_4$**
R Laishram, S Phanjoubam, H N K Sarma and C Prakash

- 2155 Magnetic nodes**
F Bancel

ELECTROMAGNETISM, OPTICS, ACOUSTICS, HEAT TRANSFER, CLASSICAL MECHANICS AND FLUID DYNAMICS

- 2162 A model for nanoparticles synthesis by pulsed laser evaporation**
A G Gnedovets, A V Gusarov and I Smurov

PHYSICS OF GASES, PLASMAS AND ELECTRIC DISCHARGES

- 2169 A simple transport theory of non-uniform gases**
Y Zhu

- 2176 Many-particle effects in travelling electrostatic wave transport**
Yu N Gartstein and J G Shaw

- 2181 Spectroscopic analysis of an air plasma cutting torch**
C Pardo, J González-Aguilar, A Rodríguez-Yunta and M A G Calderón

- 2190 Modelling discharges in electronegative gases**
R N Franklin and J Snell

- 2204 Characterization of point-plane corona in air at radio frequency using a FE-FCT method**
G E Georghiou, R Morrow and A C Metaxas

- 2219 Population of nitrogen molecule electron states and structure of the fast ionization wave**
S V Pancheshnyi, S M Starikovskaia and A Yu Starikovskii

CONDENSED MATTER: STRUCTURE, MECHANICAL AND THERMAL PROPERTIES

- 2228 *In situ* synchrotron radiation diffraction study of low carbon steel during ion nitriding**
J N Feugeas, J D Hermida, B J Gomez, G Kellermann and A Craievich

(Continued on inside back cover)