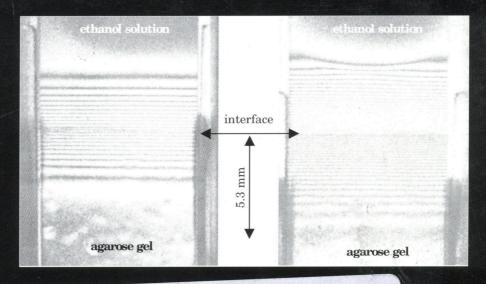
IoP

Journal of Physics D Applied Physics Physics

Volume 34 Number 20 21 October 2001

Review article: Thermal plasmas in gas mixtures *A B Murphy*

Online: www.iop.org/journals/jphysd



Ref: PF 120201/05 Df: 29982251
JOURNAL OF PHYSICS ("D": APPLIED PHYSIC
21.10.01 Vol. 34 No. 20
0022-3727 22101144 08.11.01
LIBRIS - C2
144 BOULEVARD KRIM BELKACEM
ALGER

Institute of Physics Publishing

ALGERIE

Journal of Physics D: Applied Physics

Number 20

Volume 34

21 October 2001

	TOPICAL REVIEW
R151	Thermal plasmas in gas mixtures A B Murphy
	PAPERS
	APPLIED INTERFACES AND SURFACES
3003	Ballistic self-annealing during ion implantation J F Prins
3011 .	Processing vapour-deposited polyimide F-Y Tsai, E L Alfonso, D R Harding and S H Chen
	APPLIED MAGNETISM AND MAGNETIC MATERIALS
3019	Nanosecond pulsed field magnetization reversal in thin-film NiFe studied by Kerr effect magnetometry D Atkinson, D A Allwood, M D Cooke and R P Cowburn
3024	The beneficial effect of the boron substitution on the magnetostrictive compound Tb _{0.7} Pr _{0.3} Fe ₂ W J Ren, Z D Zhang, A S Markosyan, X G Zhao, X M Jin and X P Song
	EXPERIMENTAL, COMPUTATIONAL AND THEORETICAL PARTICLE BEAM AND PLASMA SCIENCE
3028	Analytical description of a collisional plasma column in a vacuum arc centrifuge M J Hole and S W Simpson
3036	The spectroscopic determination of the temperature and copper vapour concentration for arc jets of 50 k ac arc in the long gap M Iwata, S-I Tanaka, K Ikeda and Y Goda
3043	Spatial density profiles of metallic ions with different charge states from a vacuum arc operated with background gas A Lepone and H Kelly
	OPTICAL, ELECTRONIC, ELECTRICAL AND SUPERCONDUCTING PROPERTIES AND APPLICATIONS
3051	Complete relaxation map of polyethylene: filler-induced chemical modifications as dielectric probes P Frübing, D Blischke, R Gerhard-Multhaupt and M Salah Khalil
3058	On the effective properties of thermo-piezoelectric matrix composites V M Levin and A G Luchaninov
	STRUCTURE AND PROPERTIES OF MATTER
3064	Sound velocity variations and melting of vanadium under shock compression Chengda Dai, Xiaogang Jin, Xianming Zhou, Jianjun Liu and Jinbiao Hu
	INTERDISCIPLINARY PHYSICS AND RELATED AREAS OF SCIENCE AND TECHNOLOGY
3071	Space charge profiles in low density polyethylene samples containing a permittivity/conductivity gradient K R Bambery, R J Fleming and J T Holbøll
3078	External electro-optic measuring system with high spatial resolution and high voltage sensitivity by using an electro-optic solid immersion probe Chen Zhanguo, Jia Gang and Yi Maobin
3083	A white organic light emitting diode with improved stability Zhang Zhi-lin, Jiang Xue-yin, Zhu Wen-qing, Zhang Bu-xin and Xu Shao-hong
3088	Light deflection and convection in diffusion experiments using holographic interferometry C Mattisson, D Karlsson, S-G Pettersson, G Zacchi and A Axelsson