

PHYSICS– USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
February 2006 Volume 176 Number 2

Contents

Volume 49
Number 2
2006
Pages 117–224

REVIEWS OF TOPICAL PROBLEMS	
Extreme processes in clusters impacting on a solid surface	117
G N Makarov	
INSTRUMENTS AND METHODS OF INVESTIGATION	
Cladding modes of optical fibers: properties and applications	167
O V Ivanov, S A Nikitov, Yu V Gulyaev	
FROM THE CURRENT LITERATURE	
Critical size in ferroelectric nanostructures	193
V M Fridkin	
CONFERENCES AND SYMPOSIA	
Joint scientific session of the Physical Sciences Division of the Russian Academy of Sciences and the Joint Physical Society of the Russian Federation “Strongly correlated electrons in two-dimensional systems” (26 October 2005):	203
Metal–insulator transitions and related phenomena in a strongly correlated two-dimensional electron system	203
V M Pudalov	

Continued overleaf

Contents continued

Two-dimensional multicomponent electron gas as a model for silicon heterostructures S V Iordanskii, A Kashuba	208
Interaction effects in the transport and magnetotransport of two-dimensional electrons in AlGaAs/GaAs and Si/SiGe heterojunctions E B Olshanetskii, V Renard, Z D Kvon, I V Gornyi, A I Toropov, J C Portal	211
PERSONALIA	
Aleksandr Nikolaevich Skrinsky (on his seventieth birthday) L M Barkov, S T Belyaev, A E Bondar', M V Danilov, N S Dikansky, E P Kruglyakov, G N Kulipanov, I N Meshkov, L B Okun', V V Parkhomchuk, V A Sidorov, Yu M Shatunov	217
Gennadii Andreevich Mesyats (on his seventieth birthday) Zh I Alferov, A F Andreev, V L Ginzburg, N S Kardashev, L V Keldysh, B M Koval'chuk, S D Korovin, O N Krokhin, M V Sadovsky, E L Feinberg, V E Fortov, V G Shpak	219
Physics news on the Internet Yu N Eroshenko	223