Russian original reference Usp. Fiz. Nauk Vol. 190 , pages	Contents	English translation reference Phys. Usp. Vol. 63 , pages
337	Nanotransport controlled by means of the ratchet effect Yu V Gulyaev, A S Bugaev, V M Rozenbaum, L I Trakhtenbe	311
355	Nature of Poisson's ratio of amorphous polymers and glasses and its relation to structure-sensitive properties D S Sanditov	327
371	High-energy ball milling of nonstoichiometric compounds A I Gusev	342
396	Low-power-threshold parametric decay instabilities of powerful microwave beams in toroidal fusion devices E Z Gusakov, A Yu Popov	365
421	Method of detection and spectrometry of charged particles produc in a superstrong electromagnetic field based on their transport by the magnetic field of a coaxial line S I Moshkunov, V Yu Khomich	ed 388
429	Particles in finite and infinite one-dimensional periodic chains I F Ginzburg	395
441	Ballistic and shift currents in the bulk photovoltaic effect theory B I Sturman	407
447	In memory of Leonid Ivanovich Ponomarev	412
446	Physics news on the Internet Yu N Eroshenko	414

 \Diamond \Diamond

In the next issue

Complex phase diagrams of systems with isotropic potentials: results of computer simulations

V N Ryzhov, E E Tareyeva, Yu D Fomin, E N Tsiok

Effects of action at a distance in water

L I Menshikov, P L Menshikov, P O Fedichev

Desorption processes in the measurement of weak currents V G Lukin, O G Khvostenko

Interaction of a wave with an accelerating object and the equivalence principle

A I Frank

Traveling wave tubes: a history of people and fates

D I Trubetskov, G M Vdovina

In memory of Mikhail Borisovich Voloshin

New books on physics and related sciences

E V Zakharova

Physics news on the Internet

Yu N Eroshenko



1063-7869(2020)63:4;1-N

April 2020 Volume 63, Number 4

Translation of the Russian journal
Успехи физических наук, Uspekhi Fizicheskikh Nauk
April 2020, Volume 190, No. 4