

PHYSICS- USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
January 1998 Volume 168 Number 1

Contents

Volume 41
Number 1
1998
Pages 1–104

REVIEWS OF TOPICAL PROBLEMS

- An introduction to matrix superstring models** 1
K L Zarembo, Yu M Makeenko
- Dielectric spectroscopy of hydrogen-bonded crystals, and proton relaxation** 25
M P Tonkonogov
- Effects of the nanocrystalline state in solids** 49
A I Gusev

PHYSICS OF OUR DAYS

- Transient waveforms and nonperiodic waves in dispersive media (exactly solvable models)** 77
A B Shvartsburg

METHODOLOGICAL NOTES

- Self-action of a heat-releasing admixture in a liquid medium** 95
L Kh Ingel'
- Physics news on the Internet** 100
Yu N Eroshenko

PERSONALIA

- In memory of Nikita Alekseevich Sveshnikov** 101
V G Kadyshevskii, A A Logunov, V A Matveev, V A Rubakov,
V I Savrin, A A Slavnov, V I Trukhin, O A Khrustalev, D V Shirkov
- In memory of Boris Arkad'evich Tverskoï** 103
A A Galeev, G T Zatsepin, M I Panasyuk, R Z Sagdeev,
V A Sadovnichii, É N Sosnovets