

CONTENTS

- 1 Bezverkhy O., Zinchuk L., Karlash V.**
Modeling and experimental verification
of the thin multi-electrode piezoceramic bars' forced vibrations
- 12 Bozhenko B., Nahirnyj T., Tchervinka K.**
To modeling admixtures influence on the size effects in a thin film
- 23 Holubets T.**
Investigation of the structural properties of porous material
according to the sorption isotherms and drainage curves
- 33 Ilnytskyi J., Slyusarchuk A., Saphiannikova M.**
Photo-controllable percolation of decorated nanoparticles
in a nanopore: molecular dynamics simulation study
- 43 Kostrobij P., Beznosiuk A.,**
Dmytruk V., Polovyi V.
Modeling of Pt-catalyst surface influence
on characteristics of oxygen and carbon monoxide molecules
- 51 Kostrobij P., Markovich B.**
Effective inter-electron interaction for metallic slab
- 59 Kulcsár T., Timár I.**
Mathematical optimization and engineering applications
- 79 Kutsenko O., Kadenko I.,**
Kharytonov O., Sakhno N.
EAn analytical basis for the generation
of NPP emergency operation limiting pressure-temperature curves
- 90 Markovich B., Zadvorniak I.**
An effective electron-electron interaction in semi-infinite
metal in the presence of external static electric field
with taking into account the local field approximation
- 97 Vavruk M., Dzikovskyi D., Solovyan V., Tyshko N.**
Correlation functions of the degenerate
relativistic electron gas with high density