

ACTA PHYSICA POLONICA A
Volume XX — Number Z

Special Segment

K. Chwastek, M. Najgebauer, B. Koprivica, S. Divac, M. Rosić <i>Two Approaches to Model Power Loss Under Increased Excitation Frequency</i>	9
Ł. Bernacki, R. Gozdur, E. Raj <i>Investigations of Nernst Effect in Nickel Samples</i> ...	15
M.F. de Campos, J.A. de Castro <i>Cumulative Distribution Functions as Hysteresis Models</i>	20
M.F. de Campos <i>Are There Any Alternatives for Rare-Earth Permanent Magnets?</i>	26
M.F. de Campos <i>The Concept of Heat and the Hysteresis Loop: The Evolution of the Losses Models</i>	34
P. Gębara, R. Gozdur, K. Chwastek <i>Simulation of Thermomagnetic Properties of MnCoGe Alloy</i>	41
R. Jastrzębski, K. Chwastek <i>Analysis of GRUCAD Model Behavior for Anhysteretic Curve Given by the Brillouin Function</i>	44
R. Szewczyk <i>Modeling the Anhysteretic Magnetization Curve of Anisotropic Soft Magnetic Materials</i>	48
Z. Roubal, V. Smejkal <i>Designing an Improved Method to Determine the Anhysteretic Curve in Soft Magnetic Materials via the Jiles-Atherton Model</i>	51
D. Gziel, M. Najgebauer, Ł. Mierczak <i>Experimental Verification of the Method for Calculating Losses in DC/DC Converter Cores Based on Sinusoidal Excitations</i>	59
M. Kachniarz <i>Comparison of Rayleigh Model and Steinmetz Law in Evaluation of Hysteresis Losses in Low Magnetizing Fields</i>	64
K. Kutynia, A. Przybył, P. Gębara <i>Structure and Magnetic Properties of the Magnetocaloric MnCoGe Modified by W</i>	70

Regular Segment

A. Deptuch, A. Lelito, B. Sęk, M. Urbańska <i>Comparative X-ray Diffraction Study of Two Liquid Crystalline Compounds with Chiral Centers Based on (S)-(+)-2-Octanol and (S)-(+)-3-Octanol</i>	79
C. Huang <i>Stability of Optical Solitons in Parity-Time-Symmetric Potentials with Competition Nonlinearity</i>	87
N. Van Hung, N. Cong Toan <i>Correlated and Uncorrelated Debye-Waller Factors and Correlation Function in Atomic Vibrations Including Many-Body Effects</i>	95
H. He, K. Zhang, H. Yan, J. Wang <i>New Insights on Critical Transitions of Single-Neuron Dynamics</i>	102