

LATIN AMERICAN JOURNAL OF PHYSICS EDUCATION

Volume 6, Number 2, June 2012

CONTENTS/CONTENIDO

Editorial

175-176

Papers/Artículos

Surveying Thai freshmen science students' background knowledge of basic properties of laser beam,

Jintawat Tanamatayarat, Kwan Arayathanitkul, Narumon Emarat,
Ratchapak Chitaree and Thanida Sujarittham

177-186

Effect of instructional interventions on students learning gains:

An experimental research,

Tesfaye Getinet

187-195

Dynamical variables in brachistochrone problem,

A. Tan, A. K. Chilvery and M. Dokhanian

196-200

Numerical study of pendulums: From the simple pendulum approximation to the damped physical pendulum with variable mass,

R. Espíndola-Heredia, G. del Valle and G. Hernández

201-207

Some considerations on quantities of dimension one in oscillatory motions,

Leonardo Gariboldi

208-211

Investigation of Atwood's machines according to inertia and non inertia frames,

Jafari Matehkolaee Mehdi, Mirzaee Mahdi

212-215

Characterization of sandwiched piezoelectric transducers - a complement for teaching electric circuits,

F. J. Arnold, L. L. Bravo-Roger, M. S. Gonçalves, M. Grilo

216-220

Thermodynamics of Planck oscillator in microcanonical ensemble,

Prabitha, V. V., Vibha, A. V., R. K. Sathish, K. M. Udayanandan

221-224

continued/continuación

contents/contenido

Thermodynamics of solar energy channels over the globe, D C Agrawal	225-230
Comparison between gravitational and inertial mass: Two experiments with Real Time Laboratory, Giacomo Torzo, Barbara Pecori	231-236
Trains, clocks, rulers, twins: Images in relativity teaching, Leandro Londero da Silva, Maria José Pereira Monteiro de Almeida	237-242
The Landau-Lifshitz equation for a central field in General Relativity, A. Avalos-Vargas, G. Ares de Parga	243-246
Perpendicularity between speed of light and time in the Kaluza-Klein theory, Adrián G. Cornejo	247-249
Inextensible flows of $S - s$ surfaces of biharmonic S -curves according to Sabban frame in Heisenberg Group Heis ³ , Talat KÖRPINAR and Essin TURHAN	250-255
Un tratamiento alternativo para el análisis de colisiones no relativistas con parámetro de impacto dado, S. Díaz-Solórzano, L. González-Díaz y A. Rincón-Rivero	256-267
Didáctica experimental: Un modelo de enseñanza para el concepto de campo electromagnético, Rafael Andrés Alemañ Berenguer, Estrella Jornet Gil, Pedro David Crespo Miralles	268-273
Nivel cognitivo y las habilidades de análisis de demostraciones de electrostática de estudiantes universitarios, Renato Xochitiotzi Hernández, Adrián Corona Cruz, Josip Slisko Ignjatov	274-282
Formación de profesores de bachillerato en competencias específicas de la física utilizando cursos intersemestrales en el IPN, Mario H. Ramírez Díaz, Miguel Olvera Aldana	283-291

continued/continuación

contents/contenido

Habilidades cognitivas y la resolución de un problema de cinemática: Un estudio comparativo entre los estudiantes de secundaria, bachillerato y universidad,

Adrián Corona Cruz, Maribel Sánchez Campos, Emma González Hernández y Josip Slisko 292-299

Concepción y desarrollo de un curso de Física General en modalidad de estudio semipresencial para una carrera de Ingeniería Industrial,

A. Bonnin-Garcés, B. Fariñas-Piña, G. Vega-Cruz, J. Llovera-González 300-305

Radiative lifetime and internal quantum efficiency of silicon nanostructures:
Model Calculation,

Sioma Debela Gosa and S. K. Goshal 306-310

Electrical Properties of Nanostructure Tin Oxide Thin Film Doped with Copper
Prepared by Sol-Gel Method,

M. A. Batal, G. Nashed, Fares Haj Jneed 311-316

A density functional theory (DFT) study of Co₂CrGe: LSDA method,

D. P. Rai, A. Shankar, Sandeep, M. P. Ghimire, R. K. Thapa 317-321

The Response of Ethiopian Ionosphere to the Magnetic Storm of 11 October 2008,

T. Kassa, B. Damtie and E. Yizengaw 322-326

The role of trap depth and trap centers in thermoluminescence from semiconductor
nanostructures (Review article),

Nebiyu Gemechu Debelo 327-329

BOOK REVIEWS,

Juan Miguel Suay Belenguer 330-333

ANNOUNCEMENTS/ANUNCIOS 334