

Publicaciones

**Centro de Física Aplicada y Tecnología Avanzada de la UNAM
(Informe de Actividades 2010-2011)**

Dr. Víctor Manuel Castaño Meneses

1.-Physical defects in fiber optics: a theoretical framework in phase space

A.L. Rivera y V.M. Castaño
Optik 121, 1563 (2010)

2.-Linear and non-linear symmetry behavior of gaussian wave packets

A.L. Rivera y V.M. Castaño
Optik 121, 539 (2010)

3.- Carbon Nanotubes Composites: Processing, Grafting and Mechanical and Thermal Properties (artículo invitado de revisión)

A.L. Martínez, C. Velasco y V.M. Castaño
Curr. Nanoscience 6, 12 (2010)

4.- Analysis of mechanical vibrations through Speckle Interferometry: a Phase Space approach

G. Ayala, A. L. Rivera, A. Dávila, G. Garnica y V.M. Castaño
Optik 121, 2028 (2010)

5.- Modal behavior of bone during fracture

J. Horta, A.L. Rivera y V.M. Castaño
Comp. Meth. in Biomech. and Biomed. Eng. 13, 91 (2010)

6.- Measurement of the energy spectra of fission fragments through nuclear track detectors and digital image processing

G. Espinosa, I. Golzarri y V.M. Castaño
Rad. Meas. 45, 786 (2010)

7.- Signals from living biomaterials: Analysis of human brain signals through wavelets

V. Saavedra, A. L. Rivera, T. Fernández, E. Castaño y V. M. Castaño
Mater. Res. Innov. 14, 247 (2010)

8.- A sensorless criterion for constant cutting force control in an Intelligent Manufacture Cutting System

R. Gómez, D. Alaniz, K. Arriaga, R. Peniche, G. Herrera y V.M. Castaño
J. Mechatronics & Intell. Manufact. 1, 7 (2010)

9.- Synthesis of conducting polyaniline nanofibers from binary dopant agents

M.C. Arenas, E. Andablo y V.M. Castaño
J. Nanosci. and Nanotech. 10, 549 (2010)

10.- Intelligent positioning fuzzy servomechanism under PWM nonlinear loads

D. Rangel, A. Rivera, V.M. Castaño, D. Alaníz y R. Castañeda
J. Appl. Res. and Technol. 8, 87 (2010)

11.- Phase space approach to the radial distribution function

A.L. Rivera y V.M. Castaño
Il Nuovo Cimento B 125, 1 (2010)

12.- Thermoluminescence of Tequila-based nanodiamond

J. Morales, R. Bernal, C. Cruz, E. Salcido y V.M. Castaño
Radiat. Prot. Dosim. 139, 580 (2010)

13.- Natural diffusers for the treatment of residual water in an aerobic system

L.Robles, E Segovia y V.M. Castaño
Water, Air and Soil Pollution 2130, 357 (2010)

14.- Extinction zones and scalability in N-Beam Interference Lattices

A. Jiménez, M. Trejo, E. Alvarado y V.M. Castaño
Optics Comm. 283, 362 (2010)

15.- Smart mixing of viscous fluids

D. Rangel, A.L. Rivera, P.D. Alaníz, R. Castañeda y V.M. Castaño
Mater. Res. Innov. 14, 238 (2010)

16.- How to use confocal microscopy in search of a highly resolved hologram

A. Moreno, C. Saldaña, V. Morales, M. Díaz y V.M. Castaño
Biophys. J. 98, 596 (2010)

17.- Phase change in a diffracted wave: a Cornú spiral perspective

R. Ávila y V.M. Castaño
Optics Lett. 35, 3087 (2010)

18.- Sensores piezoeléctricos de fluoruro de polivinideno modificado con nanopartículas de sílice para aplicaciones en MEMS

C. Arenas, E. Loa, D. Rangel y V.M. Castaño
Sup. y Vacío, 23, 20 (2010)