



FACULTAD DE INGENIERÍA MECÁNICA Y ELÉCTRICA
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PUBLICACIONES EN REVISTAS INDEXADAS
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TÍTULO	AUTORES	AÑO	PUBLICADO EN	DOI / ISSN
A Wear Analysis Carried On Connecting Rod Bearings From Internal Combustion Engines	Juan Rodrigo Laguna-Camacho, Silvia M Sánchez-Yáñez, Gabriel Juárez-Morales, Maria I Cruz-Orduña, Luz M Ramos-González, Cristóbal Cortez-Domínguez, Roberto L Cabrera-Santiago, Javier Calderón-Sánchez	2020	Engineering Failure Analysis	https://www.intechopen.com/books/engineering-failure-analysis/a-wear-analysis-carried-on-connecting-rod-bearings-from-internal-combustion-engines
Erosion of metals using angular silicon carbide particles	JR Laguna-Camacho, SM Sánchez-Yáñez, C Calderón-Ramón, JE Escalante-Martínez, G Juárez-Morales, MI Cruz-Orduña, LM Ramos-González, A Galicia-Badillo	2019	Tribology-Materials, Surfaces & Interfaces	https://www.tandfonline.com/doi/abs/10.1080/17515831.2019.1652459
Exploring the cross-correlation as a means for detecting digital watermarks and its reformulation into the fractional calculus framework	Mario González-Lee, Héctor Vázquez-Leal, José Francisco Gómez-Aguilar, Luis J Morales-Mendoza, Víctor Manuel Jiménez- Fernández, Juan R Laguna-Camacho, Celia M Calderon-Ramón	2019	IEEE Access	10.1109/ACCESS.2018.2882405
Synchronized bioluminescence behavior of a set of fireflies involving fractional operators of LIOUVILLE–CAPUTO type	JE Escalante-Martínez, JF Gómez-Aguilar, C Calderón-Ramón, A Aguilar-Meléndez, P Padilla-Longoria	2018	International Journal of Biomathematics	https://doi.org/10.1142/S1793524518500419
A mathematical model of circadian rhythms synchronization using fractional differential equations system of coupled VAN DER POL oscillators	JE Escalante-Martínez, JF Gómez-Aguilar, C Calderón-Ramón, A Aguilar-Meléndez, P Padilla-Longoria	2018	International Journal of Biomathematics	https://doi.org/10.1142/S1793524518500146

Effect of tangential velocity on erosion of ASTM A-106 Grade B steel pipe under turbulent swirling impinging jet	C Sedano-de la Rosa, M Vite-Torres, EA Gallardo-Hernández, JR Laguna-Camacho, JG Godínez-Salcedo, LI Farfán-Cabrera	2017	Tribology International.	https://doi.org/10.1016/j.triboint.2017.01.011
Experimental evaluation of viscous damping coefficient in the fractional underdamped oscillator	JE Escalante-Martínez, JF Gómez-Aguilar, C Calderón-Ramón, LJ Morales-Mendoza, I Cruz-Orduña, JR Laguna-Camacho	2016	Advances in Mechanical Engineering	https://doi.org/10.1177/1687814016643068
Electrical circuits described by a fractional derivative with regular Kernel.	JF Gómez-Aguilar, T Córdova-Fraga, JE Escalante-Martínez, C Calderón-Ramón, RF Escobar-Jiménez	2016	Revista Mexicana de Física	http://www.scielo.org.mx/scielo.php?pid=S0035-001X2016000200009&script=sci_abstract
Numerical simulation of metallic nanostructures interacting with electromagnetic fields using the Lorentz-Drude model and FDTD method.	M Benavides-Cruz, C Calderón-Ramón, JF Gomez-Aguilar, M Rodríguez-Achach, I Cruz-Orduña, JR Laguna-Camacho, LJ Morales-Mendoza, M Enciso-Aguilar, H Pérez-Meana, JE Escalante-Martínez, JE López-Calderón, G Juárez-Morales	2016	International Journal of Modern Physics C	https://doi.org/10.1142/S0129183116500431
Fractional electromagnetic waves in conducting media	JF Gómez-Aguilar, H Yépez-Martínez, C Calderón-Ramón, M Benavidez-Cruz, LJ Morales-Mendoza	2016	Journal of Electromagnetic Waves and Applications	10.1080/09205071.2015.1105761
Nonlocal electrical diffusion equation	JF Gómez-Aguilar, RF Escobar-Jiménez, VH Olivares-Peregrino, M Benavides-Cruz, C Calderón-Ramón	2016	International Journal of Modern Physics C	https://www.worldscientific.com/doi/abs/10.1142/S0129183116500078
Laplace transform homotopy perturbation method for the approximation of variational problems	U Filobello-Nino, H Vazquez-Leal, MM Rashidi, Hamid M Sedighi, A Perez-Sesma, M Sandoval-Hernandez, A Sarmiento-Reyes, AD Contreras-Hernandez, D Pereyra-Diaz, C Hoyos-Reyes, VM Jimenez-Fernandez, J Huerta-Chua, F Castro-Gonzalez, JR Laguna-Camacho	2016	Springer Plus.	https://doi.org/10.1186/s40064-016-1755-y

Speed-up hyperspheres homotopic path tracking algorithm for PWL circuits simulations	A Ramirez-Pinero, H Vazquez-Leal, VM Jimenez-Fernandez, HM Sedighi, MM Rashidi, U Filobello-Nino, R Castaneda-Sheissa, J Huerta-Chua, LA Sarmiento-Reyes, JR Laguna-Camacho, F Castro-Gonzalez.	2016	Springer Plus.	https://doi.org/10.1186/s40064-016-2534-5
Analytical solutions for the fractional diffusion-advection equation describing super-diffusion	Francisco Gómez, Enrique Escalante, Celia Calderón, Luis Morales, Mario González, Rodrigo Laguna	2016	Open Physics	https://doi.org/10.1515/phys-2016-0074
Equivalent circuits applied in electrochemical impedance spectroscopy and fractional derivatives with and without singular kernel	JF Gómez-Aguilar, JE Escalante-Martínez, C Calderón-Ramón, LJ Morales-Mendoza, M Benavidez-Cruz, M Gonzalez-Lee	2016	Advances in Mathematical Physics	http://dx.doi.org/10.1155/2016/9720181
A study of the wear damage on gas turbine blades	JR Laguna-Camacho, LY Villagrán-Villegas, H Martínez-García, G Juárez-Morales, MI Cruz-Orduña, M Vite-Torres, L Ríos-Velasco, I Hernández-Romero	2016	Engineering Failure	https://doi.org/10.1016/j.engfailanal.2015.10.002
Use of the perfect electric conductor boundary conditions to discretize a diffractor in FDTD/PML environment	C Calderón-Ramón, JF Gómez-Aguilar, M Rodríguez-Achach, LJ Morales-Mendoza, JR Laguna-Camacho, M Benavides-Cruz, MI Cruz-Orduña, M González-Lee, H Pérez-Meana, M Enciso-Aguilar, R Chávez-Pérez, H Martínez-García	2015	Revista Mexicana de Física	http://www.scielo.org.mx/pdf/rmf/v61n5/v61n5a4.pdf
A study of the wear mechanisms of disk and shoe brake pads	JR Laguna-Camacho, G Juárez-Morales, C Calderón-Ramón, V Velázquez-Martínez, I Hernández-Romero, Juan Vicente Mendez-Mendez, Manuel Vite-Torres	2015	Engineering Failure Analysis	https://doi.org/10.1016/j.engfailanal.2015.01.004
Erosion Behavior of AISI 6061-T6	Juan Rodrigo Laguna-Camacho, Hermilo Martínez-García, Frumencio Escamilla-Rodríguez, Carlos Alarcón-Rosas, Celia María Calderón-Ramón, Lizeth Ríos-Velasco, Lizeth Ríos-Velasco, Matilde Pelcastre-Lozano, Álvaro Casados-Sánchez, Melesio	2015	Journal of Surface Engineered Materials and Advanced Technology	

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Solid particle erosion of a coating composed of clay in a polystyrene matrix	CA Márquez-Vera, JR Laguna-Camacho, A Marquina-Chávez, G Juárez-Morales, CM Calderón-Ramón, MA Morales-Cabrera, M González-Lee, Hugo Martínez-Gutiérrez	2015	Wear	https://doi.org/10.1016/j.wear.2015.02.005
A study of the erosive wear damage on a recycled polymer coating	JR Laguna-Camacho, CA Márquez-Vera, AA Patiño-Valdez, G Juarez-Morales, I Hernández-Romero, RE Contreras-Bermúdez, Mayahuel Ortega-Aviles, MA Pantoja-Castro	2015	Wear.	https://doi.org/10.1016/j.wear.2015.01.065
Frictional Behavior of a Wet Clutch Using Blends of Automatic Transmission Fluid (ATF) and Biolubricant (Jatropha Oil) in a Pin-on-Disk Tester	Leonardo Israel Farfán-Cabrera, Ezequiel Alberto Gallardo-Hernández, Manuel Vite-Torres, Juan Rodrigo Laguna-Camacho	2015	Tribology Transactions.	https://doi.org/10.1080/10402004.2015.1032461
Modeling of a mass-spring-damper system by fractional derivatives with and without a singular kernel	José Gómez-Aguilar, Huitzilin Yépez-Martínez, Celia Calderón-Ramón, Inés Cruz-Orduña, Ricardo Escobar-Jiménez, Víctor Olivares-Peregrino	2015	Entropy	https://doi.org/10.3390/e17096289
Erosion Wear of AISI 420 Stainless Steel Caused by Walnut Shell Particles	JR Laguna-Camacho, I Hernández-Romero, JE Escalante-Martínez, CA Márquez-Vera, JL Galván-López, JV Méndez-Méndez, I Arzate-Vázquez, JA Andraca-Adame	2015	Transactions of the Indian Institute of Metals	https://doi.org/10.1007/s12666-014-0493-5
Frictional Behavior of a Wet Clutch Using Blends of Automatic Transmission Fluid (ATF) and Biolubricant (Jatropha Oil) in a Pin-on-Disk Tester	Leonardo Israel Farfán-Cabrera, Ezequiel Alberto Gallardo-Hernández, Manuel Vite-Torres, Juan Rodrigo Laguna-Camacho	2015	Tribology Transactions.	https://doi.org/10.1080/10402004.2015.1032461