



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
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Reporte individual



FRANCISCO JOSE SANCHEZ SESMA

Datos Generales

Nombre: FRANCISCO JOSE SANCHEZ SESMA

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 52 años

Nombramientos

Vigente: INVESTIGADOR EMERITO TC Definitivo
Instituto de Ingeniería
Desde 16-03-2019

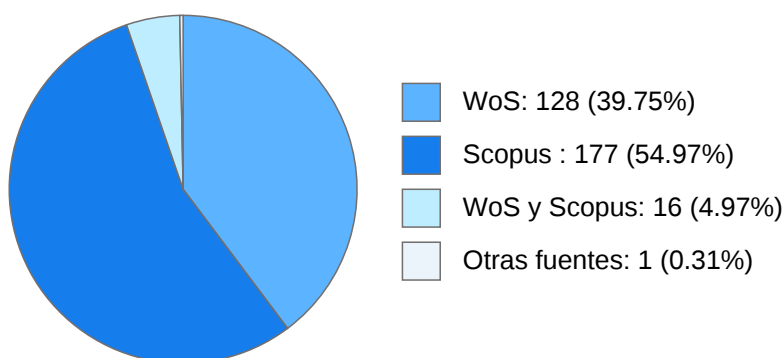
Estímulos, programas, premios y reconocimientos

SNI Emérito 2017 - VIGENTE
SNI III - 2016
PRIDE D - 2019
PUN Innovación tecnológica y diseño industrial 1998

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DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Modelling noise H/V spectral ratio in a laterally inhomogeneous layered medium	FRANCISCO JOSE SANCHEZ SESMA MARCELA ELVIRA BAENA RIVERA MARIA ALEJANDRA ARCINIEGA CEBALLOS et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2025
2	Shallow three-dimensional shear wave velocity model for the Mexico City Basin	ALEJANDRO ROSADO FUENTES JUAN MANUEL MAYORAL VILLA FRANCISCO JOSE SANCHEZ SESMA et al.	EARTHQUAKE SPECTRA	2024
3	Directional HVSR at the Chalco lakebed zone of the Valley of Mexico: Analysis and interpretation	MARCELA ELVIRA BAENA RIVERA MARIA ALEJANDRA ARCINIEGA CEBALLOS FRANCISCO JOSE SANCHEZ SESMA et al.	JOURNAL OF APPLIED GEOPHYSICS	2024
4	HV-Inv: A MATLAB-based graphical tool for the direct and inverse problems of the horizontal-to-vertical spectral ratio under the diffuse field theory	JOSE PIÑA FLORES FRANCISCO JOSE SANCHEZ SESMA García-Jerez A. et al.	Software Impacts	2024
5	Array analysis of P-wave polarization data for constraining near-surface shear wave speeds: Application to the Valley of Mexico seismic network	FRANCISCO JOSE SANCHEZ SESMA Ruelas A. Park S.	GEOPHYSICAL JOURNAL INTERNATIONAL	2024

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6	Three-dimensional numerical modeling of ground motion in the Valley of Mexico: A case study from the Mw3.2 earthquake of July 17, 2019	FRANCISCO JOSE SANCHEZ SESMA Hernández-Aguirre V.M. Paolucci R. et al.	EARTHQUAKE SPECTRA	2023
7	Seismic Characterization of Swiss Strong-Motion Borehole-Station Sites by Inversion of Full Microtremor Horizontal-to-Vertical Spectral Ratios	FRANCISCO JOSE SANCHEZ SESMA Lontsi A.M. Hobiger M. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2023
8	Ground-Motion Similarities in the Valley of Mexico from Subduction Earthquakes	MARCELA ELVIRA BAENA RIVERA FRANCISCO JOSE SANCHEZ SESMA MARIA ALEJANDRA ARCINIEGA CEBALLOS et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2023
9	Shear wave velocity and site period measurements for the western portion of the Mexico City Basin following the Mw7.1 2017 Puebla-Morelos, Mexico, earthquake	ALEJANDRO ROSADO FUENTES FRANCISCO JOSE SANCHEZ SESMA JUAN MANUEL MAYORAL VILLA et al.	EARTHQUAKE SPECTRA	2023
10	A new closed analytical solution for the elastodynamic half-space Green's function	FRANCISCO JOSE SANCHEZ SESMA Mathieu Perton Luzón F. et al.	EARTH PLANETS AND SPACE	2023
11	Shear wave velocity structure at the Fukushima forearc region based on H/V analysis of ambient noise recordings by ocean bottom seismometers	FRANCISCO JOSE SANCHEZ SESMA Atikul Haque Farazi Yoshihiro Ito et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2023
12	Seismic Response of 2D Topographic Profiles for Incident SH Waves: Iterative Solution and Comparison of Direct and Indirect BEM	JOSE PIÑA FLORES FRANCISCO JOSE SANCHEZ SESMA Jimena Mejia-Lopez et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2022
13	Partitions among elastic waves for dynamic surface loads in a layered medium	JOSE PIÑA FLORES MARTIN CARDENAS SOTO FRANCISCO JOSE SANCHEZ SESMA et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2022
14	Joint inversion of earthquake-based horizontal-to-vertical spectral ratio and phase velocity dispersion: Applications to Garner Valley	FRANCISCO JOSE SANCHEZ SESMA Rong Mianshui Fu Li-Yun et al.	Frontiers In Earth Science	2022
15	A review of the microtremor horizontal-to-vertical spectral ratio (MHVSR) method	FRANCISCO JOSE SANCHEZ SESMA S. Molnar A. Sirohey et al.	JOURNAL OF SEISMOLOGY	2022
16	Imaging the structure of the Sun Pyramid (Teotihuacán, Mexico) from passive seismic methods	JOSE PIÑA FLORES MARTIN CARDENAS SOTO FRANCISCO JOSE SANCHEZ SESMA et al.	ENGINEERING GEOLOGY	2021

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17	The Search of Diffusive Properties in Ambient Seismic Noise	JOSE PIÑA FLORES MARTIN CARDENAS SOTO FRANCISCO JOSE SANCHEZ SESMA et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2021
18	Seismic ambient noise tomography to retrieve near-surface properties in soils with significant 3D lateral heterogeneity: the case of Quinta Colorada building in Chapultepec, Mexico	MARTIN CARDENAS SOTO JOSE PIÑA FLORES DAVID ESCOBEDO ZENIL et al.	NATURAL HAZARDS	2021
19	Horizontal-to-vertical spectral ratio (HVSr) IRIS station toolbox	FRANCISCO JOSE SANCHEZ SESMA Bahavar M. Spica Z.J. et al.	Seismological Research Letters	2020
20	GROUND MOTION PREDICTION MODEL FOR SOUTHEASTERN MEXICO REMOVING SITE EFFECTS USING THE EARTHQUAKE HORIZONTAL-TO-VERTICAL SPECTRAL RATIO (EHVSr)	MIGUEL ANGEL JAIMES TELLEZ FRANCISCO JOSE SANCHEZ SESMA HUGO CRUZ JIMENEZ et al.	GEOFISICA INTERNACIONAL	2020
21	Seismic Wave Propagation in Real Media: Numerical Modeling Approaches	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA	Encyclopedia Of Earth Sciences Series	2020
22	Propagation of Elastic Waves: Fundamentals	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS	Encyclopedia Of Earth Sciences Series	2020
23	The influence of relative source-receiver positions on the recovery of P- and S-waves and energy contributions by GFSNC-binary-operator	FRANCISCO JOSE SANCHEZ SESMA ABUNDIO RODRIGUEZ CASTELLANOS Ávila-Carrera R.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2020
24	Use of peaks and troughs in the horizontal-to-vertical spectral ratio of ambient noise for Rayleigh-wave dispersion curve picking	JOSE PIÑA FLORES MARTIN CARDENAS SOTO FRANCISCO JOSE SANCHEZ SESMA et al.	JOURNAL OF APPLIED GEOPHYSICS	2020
25	Effect of Irregular Seabed on Seismic Motions	FRANCISCO JOSE SANCHEZ SESMA Martínez-Calzada V. Rodríguez-Castellanos A. et al.	JOURNAL OF EARTHQUAKE ENGINEERING	2019
26	A generalized theory for full microtremor horizontal-to-vertical [H/V(z,f)] spectral ratio interpretation in offshore and onshore environments	JUAN CAMILO MOLINA VILLEGAS FRANCISCO JOSE SANCHEZ SESMA Agostiny Marrios Lontsi et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2019
27	Special issue "Effect of surface geology on seismic motion: challenges of applying ground motion simulation to seismology and earthquake engineering" PREFACE	FRANCISCO JOSE SANCHEZ SESMA Wen K.-L. Bard P.-Y. et al.	EARTH PLANETS AND SPACE	2018

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28	Energy equipartition in theoretical and recovered seismograms	FRANCISCO JOSE SANCHEZ SESMA ABUNDIO RODRIGUEZ CASTELLANOS Victoria-Tobon E. et al.	JOURNAL OF APPLIED GEOPHYSICS	2018
29	Application of Microtremor Horizontal-to-Vertical Spectral Ratio (MHVSR) Analysis for Site Characterization: State of the Art	FRANCISCO JOSE SANCHEZ SESMA S. Molnar J. F. Cassidy et al.	SURVEYS IN GEOPHYSICS	2018
30	Local generation of love surface waves at the edge of a 2D alluvial valley	JUAN CAMILO MOLINA VILLEGAS JOSE PIÑA FLORES FRANCISCO JOSE SANCHEZ SESMA et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2018
31	Shear building stiffness estimation by wave traveling time analysis	FRANCISCO JOSE SANCHEZ SESMA Morales-Valdez, J. Alvarez-Icaza, L.	STRUCTURAL CONTROL & HEALTH MONITORING	2018
32	Modeling and inversion of the microtremor H/V spectral ratio: physical basis behind the diffuse field approach	FRANCISCO JOSE SANCHEZ SESMA	EARTH PLANETS AND SPACE	2017
33	The inversion of spectral ratio H/V in a layered system using the diffuse field assumption (DFA)	JOSE PIÑA FLORES FRANCISCO JOSE SANCHEZ SESMA Perton, Mathieu et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2017
34	Effects of the soil properties on the sea pressure profile due to seismic motions	FRANCISCO JOSE SANCHEZ SESMA Rodriguez-Castellanos, Alejandro Avila-Carrera, Rafael et al.	GEOFISICA INTERNACIONAL	2017
35	Correlations of seismic motions and energy distributions: Numerical results	FRANCISCO JOSE SANCHEZ SESMA Carbajal-Romero, Manuel Pineda-Leon, Ernesto et al.	JOURNAL OF GEOPHYSICS AND ENGINEERING	2017
36	Application of a simplified calculation for full-wave microtremor H/V spectral ratio based on the diffuse field approximation to identify underground velocity structures	FRANCISCO JOSE SANCHEZ SESMA Wu H. Masaki K. et al.	EARTH PLANETS AND SPACE	2017
37	Some properties of Green's functions for diffuse field interpretation	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS Perton M.	MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2017
38	Frecuency wavenumber analysis of strong ground motion in Mexico City	FRANCISCO JOSE SANCHEZ SESMA Baena-Rivera, Marcela Eduardo Perez-Rocha, L.	GEOFISICA INTERNACIONAL	2017
39	Hydrodynamic pressure in semicylindrical reservoir.	FRANCISCO JOSE SANCHEZ SESMA Rosenblueth E.	J. Engng. Mech. Div.: Proc. Asce	2017

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40	Numerical simulation of multiple scattering of P and SV waves caused by near-surface parallel cracks	FRANCISCO JOSE SANCHEZ SESMA Avila-Carrera, Rafael Rodriguez-Castellanos, Alejandro et al.	GEOFISICA INTERNACIONAL	2016
41	Surface-wave retrieval from generalized diffuse fields in 2D synthetic models of alluvial valleys	FRANCISCO JOSE SANCHEZ SESMA Baena-Rivera, Marcela Pertion, Mathieu	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2016
42	Combining surface-wave phase-velocity dispersion curves and full microtremor horizontal-to-vertical spectral ratio for subsurface sedimentary site characterization	FRANCISCO JOSE SANCHEZ SESMA Lontsi, Agostiny Marrios Ohrnberger, Matthias et al.	INTERPRETATION -A JOURNAL OF SUBSURFACE CHARACTERIZAT ION	2016
43	A computer code for forward calculation and inversion of the H/V spectral ratio under the diffuse field assumption	JOSE PIÑA FLORES FRANCISCO JOSE SANCHEZ SESMA Garcia-Jerez, Antonio et al.	COMPUTERS & GEOSCIENCES	2016
44	Green's function calculation from equipartition theorem	FRANCISCO JOSE SANCHEZ SESMA Pertion, Mathieu	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA	2016
45	Seismic Pressures in Offshore Areas: Numerical Results	FRANCISCO JOSE SANCHEZ SESMA Flores-Guzman, Norberto Olivera-Villasenor, Enrique et al.	LATIN AMERICAN JOURNAL OF SOLIDS AND STRUCTURES	2016
46	Numerical simulation of multiple scattering of P and SV waves caused by near-surface parallel cracks	ABUNDIO RODRIGUEZ CASTELLANOS FRANCISCO JOSE SANCHEZ SESMA ávila-Carrera R. et al.	GEOFISICA INTERNACIONAL	2016
47	Indirect boundary element method to simulate elastic wave propagation in piecewise irregular and flat regions	FRANCISCO JOSE SANCHEZ SESMA Pertion, Mathieu Contreras-Zazueta, Marcial A.	GEOPHYSICAL JOURNAL INTERNATIONAL	2016
48	Combined analysis of surface wave dispersion curves and microtremor H/V(z, f) spectral ratio for subsurface sedimentary site characterization	FRANCISCO JOSE SANCHEZ SESMA Lontsi, A.M. Ohrnberger, M. et al.	SEG Technical Program Expanded Abstracts	2015
49	Slowly-attenuating P-SV leaky waves in a layered elastic halfspace. Effects on the coherences of diffuse wavefields	FRANCISCO JOSE SANCHEZ SESMA GarciaJerez, Antonio	Wave Motion	2015
50	Effects of site geology on seismic ground motion: Early history	FRANCISCO JOSE SANCHEZ SESMA Crouse, C. B.	EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS	2015

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51	Full microtremor H/V(z,f) inversion for shallow subsurface characterization	FRANCISCO JOSE SANCHEZ SESMA Juan Camillo Molina Villegas Lontsi, Agostiny Marrios et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2015
52	The indirect boundary element method to simulate elastic wave propagation in a 2-D piecewise homogeneous domain	Mathieu Pertot FRANCISCO JOSE SANCHEZ SESMA	GEOPHYSICAL JOURNAL INTERNATIONAL	2015
53	Applicability of theoretical horizontal-to-vertical ratio of microtremors based on the diffuse field concept to previously observed data	FRANCISCO JOSE SANCHEZ SESMA Kawase, Hiroshi Matsushima, Shinichi et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2015
54	Identification of surface wave higher modes using a methodology based on seismic noise and coda waves	FRANCISCO JOSE SANCHEZ SESMA SHRI KRISHNA SINGH SINGH Rivet, Diane et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2015
55	Seismic response of three-dimensional rockfill dams using the Indirect Boundary Element Method	FRANCISCO JOSE SANCHEZ SESMA MAURICIO ARELLANO GUZMAN JUAN JOSE PEREZ GAVILAN ESCALANTE et al.	IOP Conference Series-Materials Science and Engineering	2014
56	Application of Horizontal-to-Vertical (H/v) spectral ratios for both microtremors and earthquake motions based on the diffuse field theory	FRANCISCO JOSE SANCHEZ SESMA Kawase H. Nagashima F. et al.	Ncee 2014 - 10th U.S. National Conference On Earthquake Engineering: Frontiers Of Earthquake Engineering	2014
57	Propagación de ondas de Rayleigh en medios con grietas	FRANCISCO JOSE SANCHEZ SESMA Olivera-Villasenor, E. Nunez-Farfan, J. et al.	REVISTA INTERNACIONAL DE METODOS NUMERICOS PARA CALCULO Y DISEÑO EN INGENIERIA	2014
58	The effect of lateral heterogeneity on horizontal-to-vertical spectral ratio of microtremors inferred from observation and synthetics	FRANCISCO JOSE SANCHEZ SESMA Matsushima, Shinichi Hirokawa, Takanori et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2014
59	Using diffuse field theory to interpret the H/V spectral ratio from earthquake records in Cibeles seismic station, Mexico City	FRANCISCO JOSE SANCHEZ SESMA MARTHA MARIA SUAREZ LOPEZ Salinas, V. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2014

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60	Analytic Simulation of the Elastic Waves Propagation in the Neighborhood of Fluid Filled Wells with Monopole Sources	FRANCISCO JOSE SANCHEZ SESMA Avila-Carrera, R. Spurlin, James H. et al.	PURE AND APPLIED GEOPHYSICS	2014
61	Diffractions due to P and SV waves on irregular bathymetries	FRANCISCO JOSE SANCHEZ SESMA Martinez-Calzada, V. Samayoa-Ochoa, D. et al.	JOURNAL OF GEOPHYSICS AND ENGINEERING	2014
62	Application of Horizontal-to-Vertical Spectral Ratios of Earthquake Ground Motions to Identify Subsurface Structures at and around the K-NET Site in Tohoku, Japan	FRANCISCO JOSE SANCHEZ SESMA Nagashima, Fumiaki Matsushima, Shinichi et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2014
63	Extracting the elastodynamic 2D Green's tensor from noise correlations: A numerical study	FRANCISCO JOSE SANCHEZ SESMA Rodriguez-Castellanos, A. Nunez, J. F. et al.	JOURNAL OF GEOPHYSICS AND ENGINEERING	2013
64	Garvin's generalized problem revisited	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS Kausel, Eduardo	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2013
65	The variational projection method (VPM): A modern technique to simulate the seismic response of shallow alluvial valleys	FRANCISCO JOSE SANCHEZ SESMA Avila-Carrera, R.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2013
66	Theory and simulation of time-fractional fluid diffusion in porous media	FRANCISCO JOSE SANCHEZ SESMA JUAN JOSE PEREZ GAVILAN ESCALANTE Carcione, Jose M. et al.	JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	2013
67	Corrigendum to "Garvin's generalized problem revisited"	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS Kausel, Eduardo	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2013
68	Diffuse elastic wavefield within a simple crustal model. Some consequences for low and high frequencies	FRANCISCO JOSE SANCHEZ SESMA Garcia-Jerez, Antonio Luzon, Francisco et al.	Journal Of Geophysical Research-Solid Earth	2013
69	Scholte waves on fluid-solid interfaces by means of an integral formulation	JUAN SERVANDO NUÑEZ FARFAN FRANCISCO JOSE SANCHEZ SESMA Carbajal-Romero M. et al.	GEOFISICA INTERNACIONAL	2013

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70	Simulation of LP seismic signals modeling the fluid-rock dynamic interaction	P. Corona Romero MARIA ALEJANDRA ARCINIEGA CEBALLOS FRANCISCO JOSE SANCHEZ SESMA	JOURNAL OF VOLCANOLOGY AND GEOTHERMAL RESEARCH	2012
71	Estimate of shear wave velocity, and its time-lapse change, from seismic data recorded at the SMNH01 station of KiK-net using seismic interferometry	FRANCISCO JOSE SANCHEZ SESMA Pech, Andres Snieder, Roel et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2012
72	NUMERICAL AND ULTRASONIC EXPERIMENTAL SIMULATIONS OF ELASTIC WAVE PROPAGATION AROUND HOLLOW CYLINDER	M. Perton FRANCISCO JOSE SANCHEZ SESMA MARGARITA NAVARRETE MONTESINOS et al.	JOURNAL OF COMPUTATIONAL ACOUSTICS	2012
73	Ontogenetic modulation of branch size, shape, and biomechanics produces diversity across habitats in the Bursera simaruba clade of tropical trees	MARK EARL OLSON REBECA AGUIRRE HERNANDEZ FRANCISCO JOSE SANCHEZ SESMA et al.	EVOLUTION & DEVELOPMENT	2012
74	A 3D hp-adaptive discontinuous Galerkin method for modeling earthquake dynamics	J. Tago VICTOR MANUEL CRUZ ATIENZA FRANCISCO JOSE SANCHEZ SESMA et al.	Journal Of Geophysical Research-Solid Earth	2012
75	Some properties of the Green's function of simplified elastodynamic problems	FRANCISCO JOSE SANCHEZ SESMA JUAN JOSE PEREZ GAVILAN ESCALANTE Rodriguez-Castellanos, Alejandro et al.	EARTHQUAKES AND STRUCTURES	2012
76	Least square approach to simulate wave propagation in irregular profiles using the indirect boundary element method	FRANCISCO JOSE SANCHEZ SESMA Rodriguez-Castellanos, A. Orozco-del-Castillo, M. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2011
77	Indirect Boundary Element Method applied to fluid-solid interfaces	FRANCISCO JOSE SANCHEZ SESMA MAURICIO NAVA FLORES Rodriguez-Castellanos, A. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2011
78	Diffuse seismic waves and site effects	FRANCISCO JOSE SANCHEZ SESMA M. Perton Rodriguez-Castellanos, A. et al.	JOURNAL OF GEOPHYSICS AND ENGINEERING	2011
79	Scattering of Teleseismic Body Waves by the Lateral Crustal Heterogeneity at the Pacific Trench of Mexico	FRANCISCO JOSE SANCHEZ SESMA Davis, Paul M. LUIS ANTONIO DOMINGUEZ RAMIREZ	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2011

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80	A theory for microtremor H/V spectral ratio: application for a layered medium	FRANCISCO JOSE SANCHEZ SESMA MIGUEL RODRIGUEZ GONZALEZ URSULA XIOMARA ITURRARAN VIVEROS et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2011
81	Energy Partitions among Elastic Waves for Dynamic Surface Loads in a Semi-Infinite Solid	FRANCISCO JOSE SANCHEZ SESMA Weaver, Richard L. Kawase, Hiroshi et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2011
82	The Optimal Use of Horizontal-to-Vertical Spectral Ratios of Earthquake Motions for Velocity Inversions Based on Diffuse-Field Theory for Plane Waves	FRANCISCO JOSE SANCHEZ SESMA Kawase, Hiroshi Matsushima, Shinichi	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2011
83	Propagation of elastic waves: Fundamentals	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS	Encyclopedia Of Earth Sciences Series	2011
84	Seismic wave propagation in real media: Numerical modeling approaches	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA	Encyclopedia Of Earth Sciences Series	2011
85	Numerical formulation to study fluid-solid interfaces excited by elastic waves	FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Castellanos A. Mendez E.F. et al.	Key Engineering Materials	2010
86	Numerical modelling of pore pressure variations due to time varying loads using a hybrid technique: the case of the Itoiz reservoir (Northern Spain)	FRANCISCO JOSE SANCHEZ SESMA Luzon, Francisco Garcia-Jerez, Antonio et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2010
87	Diffraction of SH cylindrical waves by a finite crack: an analytical solution	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA Vai, Rossana	GEOPHYSICAL JOURNAL INTERNATIONAL	2010
88	Vectorial seismic modeling for 3D objects by the classical solution	FRANCISCO JOSE SANCHEZ SESMA Avila-Carrera, R. Rodríguez-Castellanos, A. et al.	JOURNAL OF APPLIED GEOPHYSICS	2010
89	Field Fluctuations, Imaging with Backscattered Waves, a Generalized Energy Theorem, and the Optical Theorem	FRANCISCO JOSE SANCHEZ SESMA Snieder, Roel Wapenaar, Kees	SIAM J IMAGING SCI	2009
90	Numerical simulation of multiple scattering by hidden cracks under the incidence of elastic waves	FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Casteiianos A.	Advanced Materials Research	2009
91	Mie elastic scattering generated by cracks	FRANCISCO JOSE SANCHEZ SESMA Vai, Rossana Luzon, Francisco et al.	JOURNAL OF APPLIED GEOPHYSICS	2009

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92	In-plane seismic response of inhomogeneous alluvial valleys with vertical gradients of velocities and constant Poisson ratio	FRANCISCO JOSE SANCHEZ SESMA Luzon, Francisco Perez-Ruiz, J. Alfonso et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2009
93	Numerical Simulation of Ground Rotations along 2D Topographical Profiles under the Incidence of Elastic Plane Waves	A. Cadena Isaza FRANCISCO JOSE SANCHEZ SESMA Godinho, L. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2009
94	Rayleigh-wave scattering by shallow cracks using the indirect boundary element method	FRANCISCO JOSE SANCHEZ SESMA Avila-Carrera, R. Rodriguez-Castellanos, A. et al.	JOURNAL OF GEOPHYSICS AND ENGINEERING	2009
95	Two perspectives on equipartition in diffuse elastic fields in three dimensions	M. Perton FRANCISCO JOSE SANCHEZ SESMA Rodriguez-Castellanos, A. et al.	JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA	2009
96	Effect of underground cavities on surface earthquake ground motion under SH wave propagation	FRANCISCO JOSE SANCHEZ SESMA Smerzini, C. Aviles, J. et al.	EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS	2009
97	Retrieval of elastic Green's tensor near a cylindrical inhomogeneity from vector correlations	FRANCISCO JOSE SANCHEZ SESMA Perez-Ruiz, Juan A. Luzon, Francisco	COMMUNICATIONS IN COMPUTATIONAL PHYSICS	2008
98	Cross-correlation of random fields: mathematical approach and applications	FRANCISCO JOSE SANCHEZ SESMA Gouedard, P. Stehly, L. et al.	GEOPHYSICAL PROSPECTING	2008
99	Boundary element simulation of scattering of elastic waves by 3-D cracks	FRANCISCO JOSE SANCHEZ SESMA Iturraran-Viveros, Ursula Luzon, Francisco	JOURNAL OF APPLIED GEOPHYSICS	2008
100	Diffuse fields in dynamic elasticity	FRANCISCO JOSE SANCHEZ SESMA Perez-Ruiz, J. Alfonso Luzon, Francisco et al.	Wave Motion	2008
101	Analytical solutions for the seismic response of underground structures under SH wave propagation	FRANCISCO JOSE SANCHEZ SESMA Smerzini C. Avilés J. et al.	AIP Conference Proceedings	2008
102	Boundary Integral Equations and Boundary Elements Methods in Elastodynamics	FRANCISCO JOSE SANCHEZ SESMA Bouchon M.	ADV GEOPHYS	2007

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103	Three-dimensional indirect boundary element method for deformation and gravity changes in volcanic areas: Application to Teide volcano (Tenerife, Canary Islands)	FRANCISCO JOSE SANCHEZ SESMA Charco M. Luzón F. et al.	Journal Of Geophysical Research-Solid Earth	2007
104	Triangular spectral element simulation of two-dimensional elastic wave propagation using unstructured triangular grids	FRANCISCO JOSE SANCHEZ SESMA Mercerat E.D. Vilotte J.P.	GEOPHYSICAL JOURNAL INTERNATIONAL	2006
105	The classic Garvin's problem revisited	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2006
106	Multiple scattering of elastic waves by subsurface fractures and cavities	FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Castellanos A. Luzón F. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2006
107	Retrieval of the Green's function from cross correlation: The canonical elastic problem	FRANCISCO JOSE SANCHEZ SESMA Campillo M.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2006
108	Elastodynamic 2D Green function retrieval from cross-correlation: Canonical inclusion problem	FRANCISCO JOSE SANCHEZ SESMA Pérez-Ruiz J.A. Campillo M. et al.	GEOPHYSICAL RESEARCH LETTERS	2006
109	Scattering of elastic waves by a 2-D crack using the Indirect Boundary Element Method (IBEM)	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA Vai R.	GEOPHYSICAL JOURNAL INTERNATIONAL	2005
110	Diffraction of seismic waves in an elastic, cracked halfplane using a boundary integral formulation	FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Castellanos A. Luzón F.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2005
111	The use of direct boundary element method for gaining insight into complex seismic site response	FRANCISCO JOSE SANCHEZ SESMA Álvarez-Rubio S. Benito J.J. et al.	COMPUTERS & STRUCTURES	2005
112	Comment on 'Evidence of the dominance of higher-mode surface waves in the lake-bed zone of the valley of Mexico by Shapiro et al. (2001)'	FRANCISCO JOSE SANCHEZ SESMA Montalvo-Arrieta J.C. EDUARDO REINOSO ANGULO et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	2004
113	Scattering of elastic waves in heterogeneous media using the direct solution method	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA Janod F.	GEOPHYSICAL JOURNAL INTERNATIONAL	2004

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114	The direct boundary element method: 2D site effects assessment on laterally varying layered media (methodology)	FRANCISCO JOSE SANCHEZ SESMA Álvarez-Rubio S. Benito J.J. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2004
115	2D and 3D borehole synthetic micro-seismograms in Mexico reservoirs	URSULA XIOMARA ITURRARAN VIVEROS FRANCISCO JOSE SANCHEZ SESMA Ávila-Carrera R. et al.	SEG Technical Program Expanded Abstracts	2004
116	P-and S-waves modeling for 3D objects by a classical analytic solution	FRANCISCO JOSE SANCHEZ SESMA Ávila-Carrera R.	SEG Technical Program Expanded Abstracts	2003
117	Rayleigh waves modeling using an elastic lattice model	FRANCISCO JOSE SANCHEZ SESMA del Valle-García R.	GEOPHYSICAL RESEARCH LETTERS	2003
118	A hybrid indirect boundary element - discrete wave number method applied to simulate the seismic response of stratified alluvial valleys	FRANCISCO JOSE SANCHEZ SESMA Gil-Zepeda S.A. Montalvo-Arrieta J.C. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2003
119	Propagation of SH elastic waves in deep sedimentary basins with an oblique velocity gradient	FRANCISCO JOSE SANCHEZ SESMA Luzón F. Ramírez L. et al.	Wave Motion	2003
120	Effects of wave passage on the relevant dynamic properties of structures with flexible foundation	MARTHA MARIA SUAREZ LOPEZ FRANCISCO JOSE SANCHEZ SESMA Avilés J.	EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS	2002
121	A virtual reference site for the valley of Mexico	FRANCISCO JOSE SANCHEZ SESMA Montalvo-Arrieta J.C. EDUARDO REINOSO ANGULO	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2002
122	3D seismic response of the deep basement structure of the Granada Basin (southern Spain)	FRANCISCO JOSE SANCHEZ SESMA JOSE CARLOS ORTIZ ALEMAN Gil-Zepeda S.A. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	2002
123	Response of L-shaped rigid foundations embedded in a uniform half-space to traveling seismic waves	MARTHA MARIA SUAREZ LOPEZ FRANCISCO JOSE SANCHEZ SESMA Aviles J.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	2002
124	Wave scattering effects in elastic percolation models	FRANCISCO JOSE SANCHEZ SESMA Del Valle-García R.	MOLECULAR PHYSICS	2002
125	Nucleation of rupture under slip dependent friction law: Simple models of fault zone	FRANCISCO JOSE SANCHEZ SESMA Ampuero J.-P. Vilotte J.-P.	Journal Of Geophysical Research	2002

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126	An approximate elastic Two-Dimensional Green's function for a Constant-Gradient medium	FRANCISCO JOSE SANCHEZ SESMA Madariaga R. Irikura K.	GEOPHYSICAL JOURNAL INTERNATIONAL	2001
127	Scattering and diffraction of SH waves by a finite crack: An analytical solution	FRANCISCO JOSE SANCHEZ SESMA URSULA XIOMARA ITURRARAN VIVEROS	GEOPHYSICAL JOURNAL INTERNATIONAL	2001
128	The variational indirect boundary element method: A strategy toward the solution of very large problems of site response	FRANCISCO JOSE SANCHEZ SESMA Vai R. Dretta E.	JOURNAL OF COMPUTATIONAL ACOUSTICS	2001
129	A numerical experiment on the horizontal to vertical spectral ratio in flat sedimentary basins	FRANCISCO JOSE SANCHEZ SESMA JOSE CARLOS ORTIZ ALEMAN Luzón F. et al.	PURE AND APPLIED GEOPHYSICS	2001
130	Seismic response of 3D topographical irregularities under incoming elastic waves from point sources	FRANCISCO JOSE SANCHEZ SESMA Luzón F. Gil A. et al.	PHYS CHEM EARTH PT A	1999
131	Elastic wave propagation in an irregularly layered medium	FRANCISCO JOSE SANCHEZ SESMA Vai R. Castillo-Covarrubias J.M. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1999
132	The spectral element method for elastic wave equations - Application to 2-D and 3-D seismic problems	FRANCISCO JOSE SANCHEZ SESMA Komatitsch D. Vilotte J.-P. et al.	INT J NUMER METH ENG	1999
133	A hybrid calculation technique of the indirect boundary element method and the analytical solutions for three-dimensional problems of topography	FRANCISCO JOSE SANCHEZ SESMA Yokoi T.	GEOPHYSICAL JOURNAL INTERNATIONAL	1998
134	Computing topographical 3D site effects using a fast IBEM/conjugate gradient approach	JOSE CARLOS ORTIZ ALEMAN FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Zúñiga J.L. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	1998
135	Reply to comment by J. L. Mateos, O. Novaro, T. H. Seligman and J. Flores on 'Can horizontal P waves be trapped and resonate in a shallow sedimentary basin?'	FRANCISCO JOSE SANCHEZ SESMA Luzón F.	GEOPHYSICAL JOURNAL INTERNATIONAL	1997
136	Diffraction of P, S and Rayleigh waves by three-dimensional topographies	FRANCISCO JOSE SANCHEZ SESMA Luzón F. Rodríguez-Zúñiga J.L. et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	1997

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137	Surface-wave propagation across the Mexican Volcanic Belt and the origin of the long-period seismic-wave amplification in the Valley of Mexico	SHRI KRISHNA SINGH SINGH FRANCISCO JOSE SANCHEZ SESMA Shapiro N.M. et al.	GEOPHYSICAL JOURNAL INTERNATIONAL	1997
138	Use of in situ measurements of ground inclination for determining shallow elastic parameters	FRANCISCO JOSE SANCHEZ SESMA Rodríguez-Zúñiga J.L. Gaulon R. et al.	Geotechnique	1997
139	Strong ground motion and site effects	FRANCISCO JOSE SANCHEZ SESMA	No Identificado	1997
140	Can horizontal P waves be trapped and resonate in a shallow sedimentary basin?	FRANCISCO JOSE SANCHEZ SESMA Luzón F.	GEOPHYSICAL JOURNAL INTERNATIONAL	1996
141	Dynamic soil parameters determination by geophysical prospecting in Mexico City: Implication for site effect modeling	FRANCISCO JOSE SANCHEZ SESMA Jongmans D. Demanet D. et al.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1996
142	Analysis of wave propagation in the Valley of Mexico from a dense array of seismometers	FRANCISCO JOSE SANCHEZ SESMA SHRI KRISHNA SINGH SINGH Barker J.S. et al.	BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA	1996
143	Indirect boundary element method for dynamic elasticity	FRANCISCO JOSE SANCHEZ SESMA	Proceedings Of Engineering Mechanics	1995
144	Simulation of the seismic response of a 2D sedimentary basin: a comparison between the indirect boundary element method and a hybrid technique	FRANCISCO JOSE SANCHEZ SESMA Luzon F. Aoi S. et al.	Bulletin - Seismological Society Of America	1995
145	Seismic response of shallow alluvial valleys: the use of simplified models	FRANCISCO JOSE SANCHEZ SESMA LUIS EDUARDO PEREZ ROCHA Rodriguez-Zuniga J.L.	Bulletin - Seismological Society Of America	1995
146	Azimuth dependent wave amplification in alluvial valleys	FRANCISCO JOSE SANCHEZ SESMA Pedersen H.A. Campillo M.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1995
147	Waveform inversion for determining the boundary shape of a basin structure	FRANCISCO JOSE SANCHEZ SESMA Aoi S. Iwata T. et al.	Bulletin - Seismological Society Of America	1995
148	Seismic response of three-dimensional alluvial valleys for incident P,S, and Rayleigh waves	FRANCISCO JOSE SANCHEZ SESMA Luzon F.	Bulletin - Seismological Society Of America	1995

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149	Three-dimensional scattering by two-dimensional topographies	FRANCISCO JOSE SANCHEZ SESMA Pedersen H.A. Campillo M.	Bulletin – Seismological Society Of America	1994
150	Indirect boundary element method applied to simulate the seismic response of alluvial valleys for incident P, S and Rayleigh waves	FRANCISCO JOSE SANCHEZ SESMA Ramos-Martinez J. Campillo M.	EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS	1993
151	Topographic effects for incident P, SV and Rayleigh waves	FRANCISCO JOSE SANCHEZ SESMA Campillo M.	Tectonophysics	1993
152	Ground motion in Mexico City during the April 25, 1989, Guerrero earthquake	FRANCISCO JOSE SANCHEZ SESMA LUIS EDUARDO PEREZ ROCHA EDUARDO REINOSO ANGULO	Tectonophysics	1993
153	Discussion of the paper 'subsoil geology and soil amplification in Mexico Valley'	FRANCISCO JOSE SANCHEZ SESMA Chávez-Pérez S.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1992
154	Fast computation of SH seismic response for a class of alluvial valleys	MARTHA MARIA SUAREZ LOPEZ FRANCISCO JOSE SANCHEZ SESMA Paolucci R.	Bulletin – Seismological Society Of America	1992
155	Resonant response of a cylindrical mountain to a seismic SH wave [Reponse resonante d'une montagne cylindrique a une onde sismique SH]	FRANCISCO JOSE SANCHEZ SESMA Kouoh-Bille L. Wirgin A.	Comptes Rendus – Academie Des Sciences, Serie II	1991
156	Diffraction of P, SV and Rayleigh waves by topographic features: a boundary integral formulation	FRANCISCO JOSE SANCHEZ SESMA Campillo M.	Bulletin – Seismological Society Of America	1991
157	Reply by authors to M. D. Trifunac	EDUARDO REINOSO ANGULO FRANCISCO JOSE SANCHEZ SESMA And, M.O.	EARTHQUAKE ENGINEERING & STRUCTURAL DYNAMICS	1991
158	Influence of small lateral variations of a soft surficial layer on seismic ground motion	FRANCISCO JOSE SANCHEZ SESMA Campillo M. Aki K.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1990
159	Note on the fast computation of response spectra estimates	EDUARDO REINOSO ANGULO MARIO GUSTAVO ORDAZ SCHROEDER FRANCISCO JOSE SANCHEZ SESMA	Earthquake Engineering & Structural Dynamics	1990

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160	Seismic response of alluvial valleys for incident P, SV and Rayleigh waves	FRANCISCO JOSE SANCHEZ SESMA Bravo M.A.	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1990
161	Water pressures on rigid gravity dams with finite reservoir during earthquakes	FRANCISCO JOSE SANCHEZ SESMA Aviles Javier	Earthquake Engineering & Structural Dynamics	1989
162	Diffraction of elastic waves by three-dimensional surface irregularities. Part II	FRANCISCO JOSE SANCHEZ SESMA LUIS EDUARDO PEREZ ROCHA Chavez-Perez S.	Bulletin - Seismological Society Of America	1989
163	A note on the Rayleigh hypothesis and the Aki-Larner method	FRANCISCO JOSE SANCHEZ SESMA Campillo M. Irikura K.	Bulletin - Seismological Society Of America	1989
164	Destructive strong ground motion in Mexico City: source, path, and site effects during great 1985 Michoacan earthquake	FRANCISCO JOSE SANCHEZ SESMA Campillo M. Gariel J.C. et al.	Bulletin - Seismological Society Of America	1989
165	Seismic response of a class of alluvial valleys for incident SH waves.	FRANCISCO JOSE SANCHEZ SESMA FRANCISCO JOSE CHAVEZ GARCIA Bravo M.A.	Bulletin - Seismological Society Of America	1988
166	Mexico earthquake of September 19, 1985 - the incident wavefield in Mexico City during the great Michoacan earthquake and its interaction with the deep basin	FRANCISCO JOSE SANCHEZ SESMA Campillo M. Bard P.Y. et al.	EARTHQUAKE SPECTRA	1988
167	Hydrodynamic pressures on dams with nonvertical upstream face	FRANCISCO JOSE SANCHEZ SESMA Aviles J.	JOURNAL OF ENGINEERING MECHANICS	1988
168	Foundation isolation from vibrations using piles as barriers	FRANCISCO JOSE SANCHEZ SESMA Avilés J.	JOURNAL OF ENGINEERING MECHANICS	1988
169	Site effects on strong ground motion	FRANCISCO JOSE SANCHEZ SESMA	SOIL DYNAMICS AND EARTHQUAKE ENGINEERING	1987
170	Trefftz's method for vibration of rigid plate	FRANCISCO JOSE SANCHEZ SESMA Bravo M.A.	JOURNAL OF ENGINEERING MECHANICS	1987
171	On the seismic response of a dipping layer	FRANCISCO JOSE SANCHEZ SESMA Velázquez S.A.	Wave Motion	1987

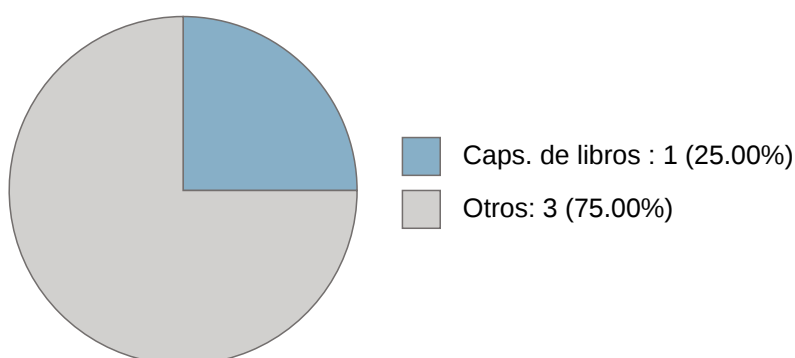
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172	Hydrodynamic pressures on dams with nonvertical upstream face	FRANCISCO JOSE SANCHEZ SESMA Avilés J.	JOURNAL OF ENGINEERING MECHANICS	1986
173	An index for measuring the effects of topography on seismic ground motion intensity.	FRANCISCO JOSE SANCHEZ SESMA Faccioli E. Fregonese R.	Earthquake Engineering & Structural Dynamics	1986
174	Piles as barriers for elastic waves	FRANCISCO JOSE SANCHEZ SESMA Avilés J.	Journal Of Geotechnical Engineering	1983
175	EFFECTS OF CANYON TOPOGRAPHY ON DYNAMIC SOILBRIDGE INTERACTION FOR INCIDENT PLANE SH WAVES.	FRANCISCO JOSE SANCHEZ SESMA Esquivel Jorge A.	American Society Of Mechanical Engineers (paper)	1980
176	Hydrodynamic pressures on dams with inclined face.	FRANCISCO JOSE SANCHEZ SESMA Yang C.Y. Wang H. et al.	J. Engng. Mech. Div.: Proc. Asce	1979
177	GROUND MOTION AT CANYONS OF ARBITRARY SHAPE UNDER INCIDENT SH WAVES.	FRANCISCO JOSE SANCHEZ SESMA Rosenblueth Emilio	Earthquake Engineering & Structural Dynamics	1979
178	HYDRODYNAMIC PRESSURE IN SEMICYLINDRICAL RESERVOIR	FRANCISCO JOSE SANCHEZ SESMA Rosenblueth Emilio	Asce J Eng Mech Div	1977

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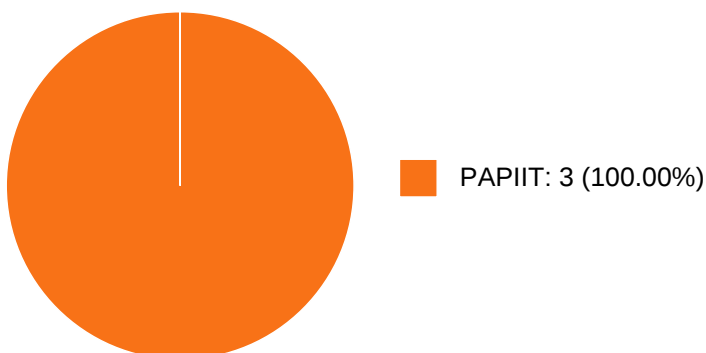


#	Título	Autores	Alcance	Año	ISBN
1	Three-dimensional Effects in the Seismic Response of Two-dimensional Alluvial Valleys for Oblique Incidence of P, SV, SH and Rayleigh Waves	FRANCISCO JOSE SANCHEZ SESMA MARCELA ELVIRA BAENA RIVERA Mohammadi K. et al.	Conferencia Paper	2022	9781713884767
2	A hybrid technique to compute the pore pressure changes due to time varying loads: Application to the impounding of the Itoiz reservoir, Northern Spain	FRANCISCO JOSE SANCHEZ SESMA Luzón F. García-Jerez A. et al.	Conferencia Paper	2009	9781605950068
3	Wave propagation in a biphasic fluid-solid media, with a pseudo-spectral fd scheme	JUAN JOSE PEREZ GAVILAN ESCALANTE FRANCISCO JOSE SANCHEZ SESMA Flores E.	Capítulo de un Libro	2008	9780203886229
4	Seismic response of three-dimensional alluvial valleys	LUIS EDUARDO PEREZ ROCHA FRANCISCO JOSE SANCHEZ SESMA Chavez-Perez S.	Conferencia Paper	1989	9061918936

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PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos

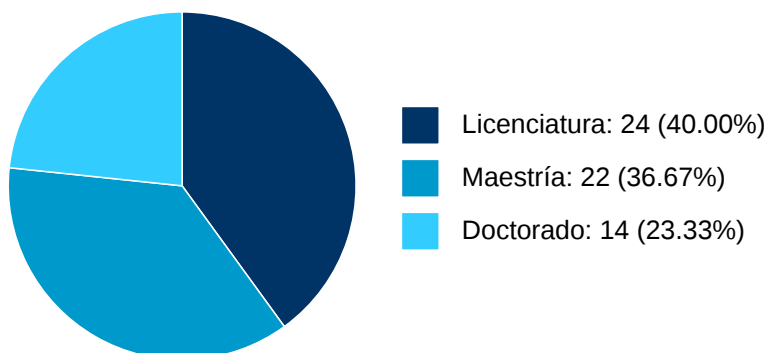


#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Campos difusos en configuraciones irregulares	FRANCISCO JOSE SANCHEZ SESMA	Recursos PAPIIT	01-01-2017	31-12-2019
2	Caracterización y Aplicación de Campos Difusos en Configuraciones Irregulares.	FRANCISCO JOSE SANCHEZ SESMA	Recursos PAPIIT	01-01-2020	31-12-2022
3	Campos difusos y elasticidad dinámica: consolidación de logros y prospectiva	FRANCISCO JOSE SANCHEZ SESMA	Recursos PAPIIT	01-01-2023	31-12-2025

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PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Método indirecto de elementos de frontera asintótico (A-IBEM) : caso antiplano	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Chávez Zamorate, Nayeli,	Instituto de Ingeniería,	2024
2	La función de Green de la elastodinámica en medios estratificados con el número de onda discreto	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Martínez Reyes, Frida Lizbeth,	Instituto de Ingeniería,	2023
3	Implementación de condiciones de superficie libre irregular en un código de diferencias finitas 3D	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Davila Garcia, Alfredo,	Instituto de Ingeniería,	2023
4	Modelado numérico de la propagación de ondas elásticas en un medio con inclusiones y topografía irregular mediante el método indirecto de elementos de contorno	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	López Sugahara, Oscar Isao,	Instituto de Ingeniería,	2022

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5	Tomografía sísmica e inversión de formas de onda usando métodos de optimización empleados por las redes neuronales artificiales	Tesis de Doctorado	URSULA XIOMARA ITURRARAN VIVEROS,	TOMAS MORALES ACOLTZI, FRANCISCO JOSE SANCHEZ SESMA, et al.	Centro de Ciencias de la Atmósfera, Facultad de Ciencias, Instituto de Ingeniería,	2021
6	Uso de ruido sísmico ambiental para calcular e interpretar los cocientes espectrales $h/v(z,f)$ en medios subacuáticos con base en la teoría generalizada de campos difusos	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Jaramillo Rivera, Aristóteles Homero,	Instituto de Ingeniería,	2020
7	Modelación de la propagación de la onda elástica en medios heterogéneos por el método de haces gaussianos	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Vera Chávez, Nain,	Instituto de Ingeniería,	2020
8	Cociente espectral H/V bajo la teoría de campos difusos	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Piña Flores, José,	Instituto de Ingeniería,	2020
9	Optimación del método de proyección variacional para el modelado de ondas sísmicas	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Vargas Zamudio, Kevin Axel,	Instituto de Ingeniería,	2020
10	Respuesta sísmica de configuraciones irregulares con el método de diferencias finitas	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Dávila García, Alfredo,	Instituto de Ingeniería,	2019
11	Cálculo de sismogramas sintéticos en medios estratificados	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Sainos Vizuet, Michelle,	Instituto de Ingeniería,	2018

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12	Estudio de la respuesta elastodinámica inducida por flujos viscosos usando técnicas experimentales y numéricas	Tesis de Maestría	MARIA ALEJANDRA ARCINIEGA CEBALLOS,	MARIA JAZMIN CHAVEZ ALVAREZ, JOSE ENRIQUE GUZMAN VAZQUEZ, et al.	Instituto de Geofísica, Instituto de Ingeniería,	2018
13	Optimación del método indirecto de elementos de contorno para aplicaciones en ingeniería sísmológica y geotécnica	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Contreras Zazueta, Marcial Alberto,	Instituto de Ingeniería,	2017
14	Campos difusos generalizados para tomografía de valles aluviales : el caso del Valle de la Ciudad de México	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Baena Rivera, Marcela Elvira,	Instituto de Ingeniería,	2017
15	Propagación de ondas elásticas en un medio heterogéneo utilizando el método indirecto de elementos de frontera	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Pardo Dañino, Julio César,	Instituto de Ingeniería,	2016
16	Interacción fluido-sólido en formas axisimétricas cerradas mediante el método de Trefftz	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Negri Leiva, Rodrigo Salvador de,	Instituto de Ingeniería,	2015
17	Cálculo e inversión del cociente h/v a partir de ruido ambiental	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Piña Flores, José,	Instituto de Ingeniería,	2015
18	Respuesta sísmica de valles aluviales tridimensionales con métodos simplificados	Tesis de Doctorado	LUIS ESTEVA MARABOTO,	JUAN JOSE PEREZ GAVILAN ESCALANTE, EDUARDO REINOSO ANGULO, et al.	Instituto de Ingeniería,	2015
19	Análisis paramétrico de topografías y valles aluviales por medio del método Ibm optimizado	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Arellano Guzmán, Mauricio,	Instituto de Ingeniería,	2014

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20	Teoría y aplicación de cocientes espectrales en exploración sísmica somera	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Franco Cruz, Patsy,	Instituto de Ingeniería,	2013
21	Respuesta sísmica de inclusiones tridimensionales en un semiespacio elástico	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Arellano Guzmán, Mauricio,	Instituto de Ingeniería,	2010
22	Estudio teórico experimental del comportamiento estático y dinámico de medios estratificados	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Rodríguez Zúñiga, José Luis,	Instituto de Ingeniería,	2010
23	Modulos de atenuación de ondas elásticas en la vecindad de pozos petroleros	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Vera Arroyo, Alexandro,	Instituto de Ingeniería,	2009
24	Algoritmos de atributos sísmicos para el mejoramiento de la resolución	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Reyes Ramos, Fidel,	Instituto de Ingeniería,	2009
25	Amplificación del movimiento sísmico y respuesta estructural considerando la geología superficial	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Espinoza Vazquez, Sergio Alejandro,	Instituto de Ingeniería,	2008
26	Cálculo de rotaciones en el terreno debidas a efectos de sitio empleando el método indirecto de elementos de frontera	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Cadena Isaza, Alejandro,		2007
27	Modelado analítico y numerico de la propagacion de ondas elasticas en la vecindad de pozos petroleros en medios heterogeneos fracturados	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Ávila Carrera, Rafael,		2005

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28	Sistemas de rodamiento de aeronaves : caracterizacion y optimizacion durante el aterrizaje	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Menchaca Brandan, Maria Alejandra,	2005
29	Fronteras absorbentes respectrales en esquemas de diferencias finitas	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Villa Velazquez Mendoza, Carlos Ignacio,	2005
30	Optimizacion del metodo indirecto de elementos en la frontera, aplicado al estudio de la propagacion de ondas sismicas en configuraciones irregulares	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Gil Zepeda, Sotero Alejandro,	2005
31	Modelo discreto de particulas para simular fisica de rocas : fracturamiento y fenomenos de propagacion de onda	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Valle García, Raul del,	2003
32	La respuesta sismica del terreno firme en la Ciudad de Mexico. Observaciones y modelos	Tesis de Doctorado	EDUARDO REINOSO ANGULO,	FRANCISCO JOSE SANCHEZ SESMA, Montalvo Arrieta, Juan Carlos,	2002
33	Interaccion dinamica suelo-estructura de edificios asimetricos	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Suarez López, Martha Maria,	2002
34	Funciones de Green aproximadas para un medio heterogeneo. Derivacion y aplicaciones	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Ramírez Guzmán, Leonardo,	2002
35	Modelado de respuesta sismica de presas de tierra y enrocamiento	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Ramírez Guzmán, Leonardo,	2001

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36	Fronteras absorbentes en medios elasticos	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	López Villicaña, Esperanza Beatriz,	2000
37	Propagacion de ondas elasticas en medios irregulares	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Vai, Rossana,	1999
38	Modelacion matematica de la propagacion de ondas sismicas en configuraciones realistas usando el VPM	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Ávila Carrera, Rafael,	1998
39	Modelacion matematica de la propagacion de ondas sismicas en medios heterogeneos	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Pech Perez, Andrés,	1998
40	Respuesta sismica estructural : efectos de sitio e interaccion suelo-estructura (aplicaciones al Valle de Mexico)	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Perez Rocha, Luis Eduardo,	1998
41	Propagacion de ondas sismicas en medios estratificados	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Castillo Covarrubias, José Manuel,	1996
42	Difraccion de ondas elasticas por cavidades e inclusiones	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Pech Perez, Andrés,	1995
43	Calculo rapido de las respuesta sismica de modelos de depositos sedimentarios	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Suarez López, Martha Maria,	1994
44	El metodo pseudo-espectral en la simulacion numerica de la propagacion de ondas sismicas	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Ávila Carrera, Rafael,	1994
45	Respuesta sismica de presas de formables considerando interaccion hidrodinamica	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Alvarez Cuevas, David Arturo,	1993

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46	Propagacion de ondas sismicas en configuraciones geologicas complejas	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Rodriguez Zuniga, José Luis,	1992
47	Simulacion numerica de la respuesta sismica de valles aluviales	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Ramos Martinez, Jaime,	1992
48	Respuesta sismica no lineal de depositos estratificados de suelo blando	Tesis de Maestría	FRANCISCO JOSE SANCHEZ SESMA,	Perez Rocha, Luis Eduardo,	1990
49	Predicción de movimeintos fuertes en la Ciudad de México, usando registros de temblores pequeños como funciones de Green Empíricas	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Aguirre González, Jorge,	1990
50	Un algoritmo para el calculo aproximado de espectros de respuesta sismica basado en la teoria de vibraciones casuales	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Reinoso Angulo, Eduardo,	1988
51	Respuesta sismica en depositos estratificados de suelo blando	Tesis de Doctorado	FRANCISCO JOSE SANCHEZ SESMA,	Bravo Díaz, Miguel Antonio,	1988
52	Difraccion de ondas sismicas por depositos tridimensionales de suelos blandos	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Perez Rocha, Luis Eduardo,	1987
53	Aplificacion sismica en depositos de suelo blando	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Apantenco López, Martin,	1987
54	Respuesta sismica de un estrato con irregularidad lateral	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Velazquez Lerma, Susana Adriana,	1987
55	Concentraciones de Esfuerzos Dinamicos en Tuneles Paralelos	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Macedo Gomez, Gabriel,	1985

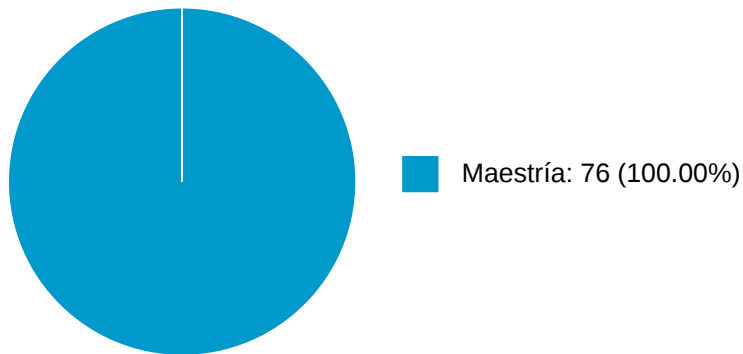
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56	Difraccion de ondas elasticas	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Chávez García, Francisco José,	1984
57	Difraccion de ondas sismicas por irregularidades tridimencional	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Chávez Perez, Sergio,	1984
58	Presiones Hidrodinamicas generadas por Sismo en Presas con Parametro no vertical	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Hong, Han Ping,	1984
59	Efectos de la topografía de un cañón en la interacción dinámica suelo-puente ante ondas incidentes SH planas	Tesis de Maestría	LUIS ESTEVA MARABOTO,	FRANCISCO JOSE SANCHEZ SESMA, Esquivel Ávila, Jorge Alfredo,	1981
60	Movimiento sismico en depositos aluviales ante incidencia de ondas planas sh	Tesis de Licenciatura	FRANCISCO JOSE SANCHEZ SESMA,	Esquivel Ávila, Jorge Alfredo,	1979

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DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Maestría	SEMINARIO DE INVESTIGACIÓN II	Instituto de Ingeniería	1	2024-2
2	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	2	2024-2
3	Maestría	PROYECTO DE INVESTIGACIÓN III	Facultad de Ingeniería	2	2024-1
4	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	21	2024-1
5	Maestría	SISMOLOGÍA AVANZADA	Instituto de Geofísica	6	2023-2
6	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	2	2023-2
7	Maestría	PROYECTO DE INVESTIGACIÓN II	Facultad de Ingeniería	2	2023-2
8	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	22	2023-1
9	Maestría	ELASTODINÁMICA	Instituto de Geofísica	6	2023-1
10	Maestría	ELASTODINÁMICA	Instituto de Geofísica	1	2022-2
11	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	1	2022-2
12	Maestría	PROYECTO DE INVESTIGACIÓN II	Facultad de Ingeniería	2	2022-2
13	Maestría	PROYECTO DE INVESTIGACIÓN III	Facultad de Ingeniería	1	2022-2
14	Maestría	ACTIVIDADES ACADÉMICAS ORIENTADAS A LA GRADUACIÓN	Facultad de Ingeniería	1	2022-2
15	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	28	2022-1
16	Maestría	PROYECTO DE INVESTIGACIÓN II	Facultad de Ingeniería	1	2021-2
17	Maestría	ELASTODINÁMICA	Instituto de Geofísica	2	2021-2
18	Maestría	ACTIVIDAD ACADÉMICA PARA LA OBTENCIÓN DEL GRADO	Instituto de Geofísica	1	2021-2
19	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	21	2021-1
20	Maestría	PROYECTO DE INVESTIGACIÓN II	Facultad de Ingeniería	1	2021-1
21	Maestría	SEMINARIO DE INVESTIGACIÓN	Instituto de Geofísica	1	2021-1
22	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	1	2020-2

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23	Maestría	ELASTODINÁMICA	Instituto de Geofísica	1	2020-2
24	Maestría	ACTIVIDAD ACADÉMICA PARA LA OBTENCIÓN DEL GRADO	Instituto de Geofísica	1	2020-2
25	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	25	2020-1
26	Maestría	SEMINARIO DE INVESTIGACIÓN	Instituto de Geofísica	1	2020-1
27	Maestría	ELASTODINÁMICA	Instituto de Geofísica	1	2020-1
28	Maestría	ELASTODINÁMICA	Instituto de Geofísica	5	2019-2
29	Maestría	ACTIVIDAD ACADÉMICA PARA LA OBTENCIÓN DEL GRADO	Instituto de Geofísica	1	2019-2
30	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	2	2019-2
31	Maestría	SEMINARIO DE INVESTIGACIÓN	Instituto de Geofísica	1	2019-1
32	Maestría	MATEMÁTICAS APLICADAS	Facultad de Ingeniería	22	2019-1
33	Maestría	ELASTODINÁMICA	Instituto de Geofísica	6	2019-1
34	Maestría	ELASTODINAMICA	Instituto de Geofísica	3	2018-2
35	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	5	2018-2
36	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	22	2018-1
37	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Instituto de Geofísica	1	2018-1
38	Maestría	ELASTODINAMICA	Instituto de Geofísica	5	2018-1
39	Maestría	SEMINARIO DE INVESTIGACIÓN	Instituto de Geofísica	1	2017-2
40	Maestría	ELASTODINÁMICA	Instituto de Geofísica	4	2017-2
41	Maestría	ELASTODINAMICA-305583	Instituto de Geofísica	5	2017-1
42	Maestría	MATEMATICAS APLICADAS-319412	Facultad de Ingeniería	23	2017-1
43	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	5	2016-2
44	Maestría	ELASTODINAMICA	Instituto de Geofísica	6	2016-2
45	Maestría	ELASTODINAMICA	Centro de Geociencias en Juriquilla, Querétaro	1	2016-2
46	Maestría	ELASTODINAMICA	Instituto de Geofísica	10	2016-1
47	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	26	2016-1
48	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	2	2015-2
49	Maestría	ACTIVIDADES ACADEMICAS ORIENTADAS A LA GRADUACION	Facultad de Ingeniería	1	2015-2
50	Maestría	ELASTODINAMICA	Instituto de Geofísica	2	2015-2
51	Maestría	ELASTODINAMICA	Instituto de Geofísica	6	2015-1
52	Maestría	PROYECTO DE INVESTIGACION III	Facultad de Ingeniería	1	2015-1
53	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	30	2015-1
54	Maestría	PROYECTO DE INVESTIGACION II	Facultad de Ingeniería	1	2014-2
55	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	5	2014-2
56	Maestría	ELASTODINAMICA	Centro de Geociencias en Juriquilla, Querétaro	1	2014-2
57	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Instituto de Geofísica	2	2014-2
58	Maestría	ELASTODINAMICA	Instituto de Geofísica	7	2014-1

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59	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Geofísica	2	2014-1
60	Maestría	PROYECTO DE INVESTIGACION I	Facultad de Ingeniería	1	2014-1
61	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	29	2014-1
62	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	4	2013-2
63	Maestría	ACTIVIDAD ACADEMICA PARA LA OBTENCION DEL GRADO	Instituto de Geofísica	1	2013-2
64	Maestría	ELASTODINAMICA	Instituto de Geofísica	3	2013-1
65	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	25	2013-1
66	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Geofísica	1	2013-1
67	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	4	2012-2
68	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	19	2012-1
69	Maestría	ELASTODINAMICA	Instituto de Geofísica	5	2012-1
70	Maestría	TEMA SELECTO	Instituto de Geofísica	2	2012-1
71	Maestría	MATEMATICAS APLICADAS	Facultad de Ingeniería	13	2011-2
72	Maestría	TEMA SELECTO	Instituto de Geofísica	2	2011-1
73	Maestría	TEMA SELECTO	Instituto de Geofísica	1	2009-1
74	Maestría	TEMA SELECTO	Instituto de Geofísica	2	2008-2
75	Maestría	TEMA SELECTO	Instituto de Geofísica	2	2008-1
76	Maestría	SEMINARIO DE INVESTIGACION	Instituto de Geofísica	1	2008-1



Sistema Integral de Información Académica
Coordinación de Planeación, Evaluación y
Simplificación de la Gestión Institucional
Reporte individual



FRANCISCO JOSE SANCHEZ SESMA

PATENTES

No se encuentran registros en la base de datos de patentes asociados a:

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FUENTES DE INFORMACIÓN

Internos

#	Información	Fuente	Sistema	Periodo
1	Grupos ordinarios y resumen de historias académicas	DGAE	SIAE	2008-2025
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2025
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2025
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

Externos

#	Información	Fuente	Sistema	Periodo
8	Documentos Indexados	Elsevier	Scopus	2008-2025
9	Documentos Indexados	Thomson Reuters	WoS	2008-2025
10	Obras con registro ISBN	INDAUTOR	Agencia ISBN	2008-2025
11	Patentes	IMPI	SIGA	2008-2024