

CARLOS ARTURO PEÑA RINCÓN

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EDUCATION

University of Nacional de Colombia, Bogotá
Physics

June 2002

University Sergio Arboleda, Bogotá
Applied Mathematics specialist

December 2005

University Sergio Arboleda, Bogotá
Msc Environmental Management and Assessment

December 2014

University of Nacional de Colombia, Manizales
Ph.D of Engineering

September 2015

PUBLICATIONS

C. Peña, J. Torres, Calculation of optical constants in porous silicon thin films using diffused and specular reflectance measurement, Surface Review and Letters, V 9, No 5, 2002, p 1821-1825.

Peter Bunyuard, Carlos Peña, Laura Diaz. Analysis of Meteorological data for Selva Station by Applying the Biotic Pump Theory. Tecciencia, V9, 17, 2014, p 107-112.

Carlos Peña, Graciela Juez Castillo, Escenario Matemático para la Toxoplasmosis en Colombia, Biomédica revista del Instituto Nacional de salud. v31,3, 2011, p 197.

Carlos Peña, Karen Garcia, Hermes Martinez, Hybrid model of the spread of Toxoplasmosis Between two Town of Colombia. Tecciencia. V 10, N0 18,2015.

Carlos Peña, Datos de precipitación con el modelo HSB para pronóstico de Deslizamiento de Suelos superficiales. Boletín de Geología. V 39(2) 2017.accepted.

Jocirei D. Rerreira, Luz Myriam Echeverry, Carlos Peña, Stability and Bifurcation in Epidemic Models Describing the Transmission of Toxoplasmosis in Human and Cat Populations, Mathematical Methods in the Applied Sciences, accepted 2017. DOI:10.1002/mma.4410.

TECHNICAL STRENGTHS

Computer Languages	Matlab, Python
Databases	Microsoft SQL
Tools	Texmaker, Vim, Emacs

PROJECTS IN PROGRESS

Airport Classification for Colombia with spectral clustering algorithm.

Landslide susceptibility mapping based on Support vector Machine: A case study on location of Bogotá.