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Paper Title : Aerodynamic Analysis of Bluff Bodies for Vortex-Induced Vibration Energy Harvesting

Bio :

Dr. Raúl Alejandro Avalos Zúñiga is a Professor and Researcher at the Center for Research in Applied Science and Advanced Technology, Querétaro unit, of the National Polytechnic Institute. He received his Ph.D. in Energy Physics from the Polytechnic Institute of Grenoble in France, a Master's degree in Solar Energy from the Institute of Renewable Energies at the National Autonomous University of Mexico, and a Bachelor's degree in Energy Engineering from the Metropolitan Autonomous University.

He has conducted international research at the Helmholtz-Zentrum Dresden-Rossendorf in Germany. His primary research interests include alternative energy systems, liquid-metal magnetohydrodynamic (MHD) electrical generators, and energy recovery in oscillating systems. Dr. Avalos is a Level I member of the National System of Researchers. He led the development of MEXDYN, the first laboratory-scale disc dynamo in the world to achieve magnetic self-excitation.