SHORT CURRICULUM VITAE

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EDUCATION

	B. Aeronautical Engineering (1975, graduated first in class) and Doctor of Engineering (1983), Madrid Polytechnic University, Madrid, Spain Master of Arts (1979) and Ph. D. (1980), Department of Mechanical and Aerospace Engineering, Princeton University, Princeton, New Jersey, USA								
CAREER TO-DATE									
	Aeronautical Engineer, AISA, Madrid, Spain, 1976-1977 Research assistant (1977-1978) and teaching assistant (1978), Princeton University								
	Instructor (1979-1980), Assistant Professor (1980-1985), Associate Professor (1985-1989) and Full Professor (1989-1993), Department of Mechanical								
	Engineering, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA. Faculty Member (1980-1991), Center for Energy and Environmental Studies, Carnegie Mellon University								
	Full Professor (1992-present), E. T. S. Ingenieros Industriales, Universidad de Málaga, Málaga, Spain								
	Visiting Profesor (1988-1989), Dipartimento di Ingegneria Meccanica, II Universita degli Studi di Roma "Tor Vergata," Rome, Italy								
FELLOWSHIPS & PRIZES									
	Prize "Francisco Arranz" (1977), Spain's Association of Aeronautical Engineers, Madrid								
	National Award in Aeronautical Engineering (1977), The King of Spain, Madrid								
	Daniel and Florence Guggenheim Fellow (1977-1978), Princeton University Honorary Daniel and Florence Guggenheim Fellow (1978), Princeton University								

	George Van Ness Lothrop (1979-1980), Princeton University Ralph R. Teetor Award (1981), Society of Automotive Engineers, USA NASA Faculty Fellow (1988), NASA Lewis Research Center, USA						
EDITO	RIAL BOARDS						
	Regional Editor (1986-1993), Associate Editor (193-2013) and Editor Board member (2013-present), Applied Mathematical Modelling Advisory Editor (1990-2013) and Editorial Board member (2014-present International Journal of Numerical Methods for Heat and Fluid Flow Associate Editor (2008-2011), Applied Mathematics and Computation Daniand Florence Guggenheim Fellow (1977-1978), Princeton University						
	Editorial Board member (2000-present), Progress in Computational Fluid Dynamics International Journal of Management Science and Engineering Management (2010-present)						
RESEA	RCH INTERESTS						
_	Applied Mathematics: asymptotic methods, nonlinear dynamics, numerical techniques, nonlinear wave propagation Fluid dynamics, combustion, heat and mass transfer, solidification and crystallization						
PUBLIC	CATIONS						
Books							
	J. I. Ramos, <i>Modelli Termodinamici dei Motori ad Accensione Commandat Diesel</i> , Librerie Editrice Universitarie Tor Vergata, Rome, Italy, May 1988 + 238 pp). (Text in English).						
	J. I. Ramos, <i>Internal Combustion Engine Modelling</i> , Hemisphere Publishing Corporation, New York, 1989. (xiv +422 pp). ISBN-13: 978-0891161578						
Chapter	*S						
	Author of twelve chapters on internal combustion engine modelling (6), turbulent chemically reactive flows (1), numerical methods for reaction-diffusion equations and combustion (2), drawing of polymer fibers (2) and numerical simulation of volcanic processes (1)						

Papers in journals of the JCR

Auth	or of over one	e hundred p	papers on sw	irl-stabiliz	ed comb	ustors	, dynamics
of bu	ubbles in glass	melts, nur	nerical meth	ods for rea	ection-di	ffusior	n equations
and	combustion,	turbulent	chemically	reactive	flows,	jerk	dynamics
linea	rization meth	ods, asymp	ototic techni	ques, drav	ving of	polyn	ner optical
fiber	s, nonlinear wa	ave propaga	ation	•			-

Papers in Proceedings of International Conferences

☐ Author of over one hundred papers in Proceedings of Internatgional Conferences on the same subjects as those of **Papers in journals of the JCR** above

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