

Curriculum Vitae
Raja Nassar

Title: Professor Emeritus, Department of Mathematics and Statistics, 2007-

Education: Ph.D. University of California at Davis, 1963.

Experience: Maxfield Endowed Professor, Louisiana Tech University, 1994-2007
Developed the graduate program in statistics and the statistical consulting Lab at Louisiana Tech University.
Steering Committee, Ph.D Interdisciplinary Research Program in Computational Analysis and Modeling (CAM) 1994-2007.
CAM Coordinator, 2000-2001.
Professor, Department of Statistics Kansas State University, 1974-1992.
Visiting Prof., Univ.of Giessen, Germany, 1992-93.
Visiting Prof., Univ.of Hannover, Germany, summers 1989, 1990, 1991.
Visiting Prof., Univ. of Kiel, Germany, Summer 1987
Visiting Prof., Univ. of Kiel, Germany, 1982-1983.
Visiting Prof., Nat'l Institute for Agr. Res. (INRA) Toulouse, France, 1974-75.
Visiting Prof., Gov. Res. Institute, Schmalenbeck (Hamburg), Germany, 1969-1970.
Associate Prof., Kansas State University, 1968-74
Assistant Prof., Kansas State University, 1966-68
Ancillary Faculty, Division of Biology, Kansas State University, 1977-1992
Member of the Coordinating Committee of the Interdisciplinary Graduate Program in Genetics, Kansas State University, 1966-1992
Postdoctoral Research Fellow, Univ. of Minn., 1964-66
Postdoctoral Research Fellow, Univ. of Calif, 1963-64
Research Assistant, Univ. of Calif., 1960-63
Research Assistant, Univ. of Idaho, 1958-60

Expertise :

Statistical and Mathematical Modeling, Quantitative Analysis, Applied Probability and Stochastic Processes, Applied Statistics and Mathematics, design of experiments and Data Analysis and Interpretation in different Disciplines

Honors and Awards

Maxfield Endowed Professor of Mathematics and Statistics, Louisiana Tech University.

1997 Sigma XI Research Award, Louisiana Tech University
Louisiana Tech University College of Engineering and Science Outstanding Achievement Award in Service, 1995-1996.
Louisiana Tech university Award for Quality Contribution to Team Work, 1998-1999.
German Ministry of Education Scholarship, 1992-93.
German Ministry of Science and Technology Scholarships, 1989, 1990, 1991.
Alexander Von Humboldt Foundation scholarship, Kiel, Germany 1982-1983.
French Government scholarship, Toulouse, 1974-75.
Alexander Von Humboldt Foundation scholarship, Hamburg, Germany 1969-1970.
Invited lecturer at workshops on mathematical modeling, 1982-1999. Held workshops on population dynamics 1985-1990.
Marquis Who's Who in the Midwest.
Marquis Who's Who in science and engineering, 1997, 1999.
Marquis Who's Who in America, 2003.
Marquis WHO's WHO in America, 60th Diamond Anniversary Edition, 2006
Marquis Who's Who in America, 2007
Marquis Who's Who in American Education 2006-2007
Marquis Who's Who in the World
Albert Nelson Marquis Lifetime Achievement Award-2018
Louisiana Tech, College of Engineering and Science Award for research and dissertation advising of Ph.D. students, 2006
2007 Louisiana Tech University Senate Chair Award for "Outstanding Contributions to Higher Education Through Teaching, Research, and Service".

Research grants:

Army Research Office (ARO): \$ 1,994,501. 1996-2001.
The development of a center for advanced mold/mask processes and applications for the miniaturization technologies. Co-PI

NSF: \$ 190,000. 1996-1999.
Mathematical modeling and computer control of focused ion beam machining. Co-PI

Louisiana Education Quality Support Fund (LEQSF):
\$ 100,000. 1996-1999.
Development of a Sanitary Sewer Management

System. Co-PI.

LEQSF:299,068.1997-2000.

High pressure convectively enhanced laser Chemical Vapor Deposition for rapid prototyping. Co-PI

NSF: \$ 2,760,040. 1996-1999.

Center for Training, Applications, and Sustainable Economic Development in the Miniaturization Technologies. Co-PI

NSF: \$ 361,337. 1998-2002.

Modeling and accelerated testing of cured-in-place plastic sewer rehabilitation liners. Co-PI

NIH: eIF4E Overexpression and Breast Cancer Recurrence. \$146840 7,1998-6,2000 with LSU Medical School. Consultant.

LEQSF: Three-dimensional numerical methods for thermal analysis in x-ray lithography. \$29,682, 1996-1998.Co-PI

Louisiana Department of Natural Resources/Federal Department of Energy: Creation of park-and ride facility and development of marketing strategy for The Baton Rouge area of Louisiana. \$400,000, 1999-2002. With Grambling State University. Consultant.

NCI (NIH): The clinical potential of the tumor marker eIF4E in head and neck cancer. \$244700. 8, 1999- 8, 2003. With LSU Medical School. Consultant.

BORSF: Upgrade of SGI parallel computer and ImmersaDesk visualization system. \$100,000, 1999-2000.Co-PI.

AFOSR: Bioeffects of Electromagnetic Nanopulses. \$2,221,000 , 3/02-9/03.Investigator

NSF/EPSCOR, 2001-2005, Microreactor Modeling, Investigator

Energy Cost Due to Duct Leakage, Louisiana Department of Natural Resources, June 1, 2004-December 30, 2005. Investigator

Statistical Analysis and Interpretation of National Damage Data to Underground Utilities, Common Ground Alliance, 2004-2005. Investigator

Department of Defense. Scalable Proactive

Technologies for Improved Resilience in Next-Generation High-Performance Computing Systems, \$500,000, October 2007-September, 2008. Research Associate.

National Science Foundation (NSF 0834483), "CSR-DMSS, PSCE: Collaborative Research: Scalable Resilience in Large-Scale Systems", 300.000\$ (September 2008-August 2011). Investigator, consultant

U.S. Department of Energy (DOE), "Reliability, Availability and Serviceability (RAS) for Petascale High-End Computing and Beyond", \$125.000/an (2007-2010). Investigator, consultant

Teaching: Considerable graduate and undergraduate teaching experience. Courses taught: Biostatistics, Stochastic Processes; Time Series Analysis; Theory of Statistics; Experimental Design; Sample Survey; Applied Probability and Statistics; Statistical Methods; Statistical Genetics; Population Genetics; Statistical Methods for quality Improvements, Calculus, Differential and partial Differential Equations, Numerical Analysis, Theory of Probability, Nonlinear Models, Multivariate Statistics, Mathematical Statistics, Mathematical Modeling, Nonparametric Statistics.

Curriculum Development: Developed the statistics program at Louisiana Tech University Revised and upgraded existing courses and introduced the following graduate courses.
Stochastic processes 651, and 652
Theory of Probability, 620
Theory of Statistics, 621
Mathematical Modeling, 655
Time series analysis, 650
Nonlinear Models, 630
Multivariate statistics, 625
Analysis of Variance, 507
Applied Probability and Mathematical Statistics 520
Biometrics, 508
Advanced Statistics for quality Improvement, 550

Statistical Consulting:

Over 30 years experience in statistical consulting involving design of experiments, process optimization, statistics for quality improvements, Survival Data Analysis, Reliability, Risk assessment, modeling, time series analysis, Sampling, data analysis and interpretation in different disciplines: Business, Medicine, Natural Sciences, Engineering, Microtechnology, Veterinary Medicine and others. Provided statistical consulting and data analysis through the statistical consulting lab for faculty and graduate student research at Louisiana Tech University.

Graduate Students: Considerable experience in supervising graduate student research and in directing Ph.D. dissertations.

graduate students: Ph.D.: 27, MS: 20

Committees: Served on the following committees: Faculty Senate, Curriculum committee, Graduate Student Admission, Teaching committee, Qualifier committee, Graduate Council, Faculty and Staff Rewards Committee, Key Strategic Committees, Tenure and Promotion committee, Quality Team, Graduate Studies Team, Program Mix Committee for Evaluating University Programs, Microprocess Modeling Team, Committee for revising the BS and MS programs in Mathematics, other departmental committees.

Scientific Meetings:

Presented papers on a yearly basis at numerous scientific meetings, national and international.

Book: R. Nassar and W. Dai. Modeling of Microfabrication Systems. Springer-Verlag.

http://www.springer.de/cgi/svcat/search_book.pl?isbn=3-540-00252-9

Selected Publications: From over 230 total

Cook, R. and R. Nassar. 1975. The amino acid composition of proteins. A method of analysis. Journal of Theoretical Population Biology, 7:64-83.

Nassar, R. and R. Cook. 1976. Nonrandomness of nucleotide basis in m RNA codons. Genetical Research, 27:353-362.

Keen, R. and R. Nassar. 1981. Confidence intervals for birth and death rates estimated with the egg-ratio technique for natural populations of zooplankton. *Jour. of Limnology and Oceanography*, 26:132-143.

Nassar, R., L.T. Fan and J.R. Too. 1981. A stochastic treatment of unimolecular reactions in unsteady state continuous flow system. *Chemical Engineering Science*, 36:1307-1317.

Nassar, R., JR Too and L. T. Fan. 1981. Stochastic modeling of polymerization in a continuous flow chemical reactor. *Journal of Applied Polymer Science*, 26:1-15.

Tillman, F., R. Nassar, W. Kuo, and C.L. Hwang. 1983. Numerical evaluation of instantaneous availability. *IEEE Transactions on Reliability*, 32:119-123.

Tillman, F., W. Kuo, R. Nassar and C.L. Hwang. 1981. A Numerical simulation of the system effectiveness. A renewal theory approach. *Proceedings of the annual Reliability and Maintainability Symposium*.

Nassar, R., R. Too and L. T. Fan. 1982. Simulation of the performance of a flow system consisting of interconnected reactors by Markov processes. *Residence Time Distribution Theory in Chemical Engineering*. (A. Petho and R. C. Noble, Editors). *Verlag Chemie*, 229-235.

Too, R., R. Nassar and L. T. Fan. 1982. Simulation of the performance of a flow chemical reactor by Markov chains. *Residence Time Distribution Theory in Chemical Engineering*. (A. Petho and R. D. Noble, Editors). *Verlag Chemi*, 237-245.

Too, R., L. T. Fan and R. Nassar. 1983. Markov chain models of complex chemical reactions in continuous flow reactors. *Computers and Chemical Engineering*, 7:1-12.

Nassar, R. and J. Mosier. 1983. Studies of the feline and canine populations in the greater Las Vegas area. *AJVR*, 45:282-287.

Nassar, R., L. T. Fan and J. R. Too. 1984. A markov process model of wind erosion. *ASEA Transaction*, 58:1047-1063.

Nassar, R., J. R. Too and L. T. Fan. 1984. A stochastic diffusion model for crystal size distribution in an open flow system. *AICHE Journal*, 30:1014-1018.

Nassar, R. and L.T. Fan. 1985. Stochastic modeling of

chemical processes. Advances in Chemical Engineering Mathematics Proceedings. Edited by A. Petho and S. Kumar, Institut fuer technische Chemie, Hannover, Germany.

Fan, L. T., R. Nassar, S. H. Hwang, and S. T. Chou. 1985. Analysis of deep-bed filtration data: modelling as a "birth-death process", AICHE Journal, 31:1781-1790.

Fan, L.T., S.H. Hwang, R. Nassar, and S.T. Chou. 1985. An experimental study of deep-bed filtration: Stochastic analysis. Powder Technology, 44:1-11.

Too, J.R., R.O. Fox, L.T. Fan, and R. Nassar. 1985. Stochastic modeling of a fluidized-bed reactor, AICHE J., 31: 992-998.

Too, J. R., R. Nassar, S.T. Chou, and L. T. Fan. 1986. Stochastic Analysis of crystallization in an open flow system. Journal of the Chinese Institute of Chemical Eng., 17, 303-313.

Too, J. R., L.T. Fan, and R. Nassar. 1986. A stochastic axial dispersion model for tubular flow reactor, Chem. Eng. SCI., 41:2341-2346.

Nassar, R., J. R. Too, and L. T. Fan. 1986. A probabilistic model of the Fischer-Tropsch synthesis in a flow reactor. Chem. Eng. Comm., 43:287-300.

Nassar, R., S. T. Chou, and L. T. Fan. 1986. Modeling and simulation of deep-bed filtration: A stochastic compartmental model., Chem. Eng. SCI., 41:2017-2027.

Nassar, R. and J. Mosier. 1986. Understanding the dynamics of your community's pet population. Veterinary Medicine Journal, 81:1120-1126.

Nassar. and M. Hühn. 1987. Tests of significance for nonparametric measures of stability. Biometrics 43, 45-53.

Nassar, R., S.T. Chou and L.T. Fan. 1987. Stochastic analysis of particle degradation. Hung. J. Ind. Chem. 15, 73-82.

Chou, S.T, L.T. Fan. and R. Nassar. 1988. Modeling of complex chemical reactions in a continuous flow reactor: A Markov Chain approach. Chem. Eng. Sc. 43, 2807-2815.

Neogi, D., L.T. Fan, R. Nassar and W. Walawander. 1988. Effect of superficial velocity on pressure fluctuations in gas-solid fluidized bed. A stochastic analysis. Appl. Stoch. Models 4, 13-14.

Huehn, M and R. Nassar. 1989. On tests of significance for

nonparametric measures of stability. *Biometrics* 45,997-1000.

Nassar, R., J. Kim, M. Glasgow and L.T. Fan. 1989. Stochastic analysis of particle size distribution in flocculation experiments. *Appl. Stoch. Models and Data Analysis* 5, 119-130.

Song, A., D. Chung and R. Nassar. 1990. A stochastic compartmental model simulating a grain cleaning process. *ASAE Transaction* 33, 877-884.

Fan, L.T., D. Neogi, M. Yashima and R. Nassar. 1990. Stochastic analysis of a three-phase fluidized bed: Fractal approach. *AICHE Journal* 36, 1529-1535.

Nassar, R., S.T. Chou and J.R. TOO. 1990. Stochastic model of a structured population of unicellular organisms. *Communic. in Statistics: Stochastic Models* 6, 593-614.

Luebbert, A., R. Nassar, J. Schmidt and L. Wan. 1991. New insights into the local mixing behavior of bubble columns. 2nd. Japanese/German Symposium on Bubble Columns, Kyoto, Japan.

Argyelan, J. A. Mathews, R. Nassar and Y. Lee. 1991. A non-linear stochastic model for adsorption in batch bioreactors. *Wat. Sc. Techn.* 24, 49-56.

Nassar, R., S.T. Chou and L.T. Fan. 1991. Stochastic analysis of stepwise cellulose degradation. *Chem. Eng. Sc.* 46, 1651-1657.

Nassar, R., R. Stewart and K. Tate. 1991. Stochastic analysis of the dynamics of nitrogen concentration in a stream ecosystem. *Ecological modeling* 56, 33-45.

Nassar, R. and J. Mosier. 1991. Projections of pet populations from census demographic data. *JAVMA* 198, 1157-1159.

Montelone, B., L.A. Gilbertson, R. Nassar, C. Giroux and R.E. Malone. 1992. Analysis of the spectrum of mutations induced by the rad3-102 mutator allele of yeast. *Mutation Research.* 267, 55-56.

Schmidt, J., R. Nassar and A. Lübbert. 1992. Stochastic analysis of oxygen concentration in bubble wakes in multiphase flow systems. *Chem. Eng. Sc.* 47, 3665-3673.

Nassar, R., J. Schmidt and A. Lübbert. 1992. A stochastic dispersion model in gas-liquid flow systems. *Chem. Eng. Sc.*, 47, 3657-3664.

Schmidt, J., R. Nassar and A. Lübbert. 1992. Influence of the wakes in bubble driven multiphase flow systems. *Chem. Eng. Sc.* 47, 2295-2300.

Yashima, M., R. Nassar and L.T. Fan. 1992. Stochastic modeling

of a three-phase fluidized-bed bioreactor. *AICHE Journal*. 38,629-634.

Nassar, R., J. Schmidt and A. Lübbert. 1992. Stochastic modeling of a turbulent flow system. 1992. *Chem.Eng.Comm.*105,279-291.

Argyelan, J and R. Nassar. 1992. A stochastic model for adsorption in an open flow system. *Environmetrics*, 3, 431-445.

Neogi, D., R. Nassar and L.T. Fan. 1993. Fractional Brownian motion modeling of pressure fluctuations in multiphase flow systems. *Applied Stochastic Models and data analysis*, 9, 19-38.

Nassar, R. J. Leon and M. Huehn. 1994. Tests of significance for combined measures of stability and performance. *Biometrical Journal*, 36, 109-123.

Nassar, R. 1994. Probability of conversion of gas molecules undergoing reaction in a multiphase flow reactor. *Hung. J. Ind. Chem.*, 22, 105-109.

Argyelan, J. and R. Nassar. 1995. A nonlinear model of an open flow adsorption process. *Environmetrics*, 6, 195-203.

Nassar, R. and J. Kiefer. 1995. Stochastic formulation of a repair-fixation model for DNA damage arising from irradiation: Distribution of mutations and probability of cell survival. *J. Periodica Polytechnica Ser. Chem. Eng.*

Mannan, M. and R. Nassar. 1995. Size and power of test statistics for gene correlation in 2x2 Contingency Tables. *Biometrical J.*, 37, 409-433.

Lee, S. M., A.P. Mathews, and R. Nassar. 1996. Stochastic modeling of multicomponent adsorption kinetics with non-linear isotherm. *Water Science Technology*, 33, 135-143.

Dai, W. and R. Nassar. 1996. A generalized Douglas ADI method for solving three-dimensional parabolic differential equations on multilayers. *Numerical Methods for Heat and Fluid flow*, 7, 659-674.

Dai, W. and R. Nassar. R.O. Warrington, and B. Shen. 1997. Three-dimensional numerical model for thermal analysis in x-ray irradiated photoresists. *Numerical Heat Transfer, A*, 31, 585-595.

Dai, W., and R. Nassar. 1997. A generalized two-cycle component-wise splitting method for solving three-dimensional parabolic differential equations with variable coefficients on

multilayers. Numerical Methods for Heat and Fluid Flow, 7, 683-879.

Dai, W., R. Nassar, and D. Jiang. 1997. Domain decomposition method for solving three-dimensional parabolic differential equations arising in thermal analysis in x-ray lithography. Proc. 8th SIAM Conf. on Parallel Processing for Scientific Computing, Minneapolis, Minnesota.

Mannan, M., and R. Nassar. 1997. Size and power of test statistics in 2x2x2 Contingency tables. Biometrical Journal, 39, 4, 455-465.

Nassar, R., M. Vasile, S. Liu, and W. Zhang. 1997. Mathematical modeling of focused ion beam microfabrication. J.Vac Sci and Techn. B 16(1), 109-115.

Dai, W., and R. Nassar. 1998. A three-dimensional numerical model for thermal analysis in x-ray lithography with cylindrical domain. Numer. Heat Transfer, Part A, 32, 517-530.

Vasile, M.J., Z. Niu., R. Nassar, W. Zhang, and S. Liu. 1997. Focused Ion Beam Milling: Depth Control for 3-D Microfabrication. The Journal of Vac. Sci. and Techn. 15, 2350-2354.

Vasile M., R. Nassar, and J. Xie. 1998. Focused ion beam technology applied to microstructure fabrication. J. Vac. Sci. and Techn. B 16, 2499-2505.

Dai, W., and R. Nassar. 1998. A three-dimensional numerical method for thermal analysis in x-ray lithography. 1998. Int. J. of numerical Methods for Heat and Fluid Flow, 8, 409-423.

Dai, W., and R. Nassar. 1998. A second order ADI scheme for three-dimensional parabolic differential equations. Numerical Methods for Partial Differential Equations. Wiley, 159-168.

Benjamin, B.D.L, J.C. McDonald, R. Nassar, and A. De Benedetti. 1998. Clinical outcome in Stage I and III Breast Carcinoma and eLF4E overexpression. Annals of Surgery, 227, 756-762.

Dai, W., and R. Nassar. 1998. A preconditioned Richardson numerical method for thermal analysis in x-ray lithography with cylindrical geometry. Numerical Heat Transfer part A, 34, 599-616.

Nassar, R., and W. Dai. 1998. Stochastic models for dispersion in a two-phase flow of a bubble column reactor. Proceedings of the 13th International Workshop on Statistical Modeling, New Orleans, July 27-31.

Dai W., and R. Nassar. 1997. A preconditioned Richardson

method in thermal analysis in x-ray lithography. Proceedings, Third IMACS International Symposium on Iterative Methods in Scientific Computation, Jackson Hole, Wyoming, July 9-12.

Dai, W., and R. Nassar. 1998. A domain decomposition algorithm for thermal analysis in x-ray lithography with cylindrical geometry. Proceedings of Parallel Computing. 1998 International mathematical Engineering Congress and Exposition (IMECE) Anaheim, California, Nov. 1998.

Nassar, R. and A. Krishnan. 1998. Mathematical model for optimization of laser photoablated microstructures, SPIE, Materials and Device Characterization in Micromachining, Volume 3512, 181-188.

Franklin, S., T. Pho, F.W. Abreo, R. Nassar, A. De Benedetti, F. J. Stucker, C. O. Nathan. 1999. Detection of proto-oncogene eIF4E in Larynx and Hypopharynx Cancers. Archives of Otolaryngology/Head and Neck Surgery, 125, 177-182.

Krishnan, A., and R. Nassar. 1998. Rapid prototyping using excimer laser microfabrication system. SPIE, Materials and Device Characterization in Micromachining, Volume 3512, 374-380.

Dai, W., and R. Nassar. 1999. A hybrid finite element-finite difference for thermal analysis in x-ray lithography with cylindrical geometry. Int. Journal of Numerical Methods for Heat and Fluid Flow, 9, 660-676.

Kathula, V., N. Pumphry, F. Roberts, and R. Nassar. 1999. Integrating sewer condition with sewer management. North American No-Dig 99, 91-102.

Franklin, S., T. Pho, F.W. Abreo, R. Nassar, A. De Benedetti, F. J. Stucker, C. O. Nathan. 1999. Immunohistochemical Detection of the proto-oncogene eIF4E in Larynx and Hypopharynx Cancers. Selected for the Journal Club of Clinical Oncology, No. 11.

Vasile, M., R. Nassar, J. Xie, and H. Guo. 1999. Microfabrication Techniques using focused ion beams and emergent applications. Micron, 30, 235-244.

Vasile, M., J. Xie, and R. Nassar. 1999. Depth control of focused ion beam milling from a numerical model of the sputter process. J. Vac. Sci. and Technology, B., 17, 3085-3090.

Nathan, C.O., S. Franklin, S. Abreo., R. Nassar., A. Benedetti., F. Stucker., and J. Glass. 1999. Analysis of surgical margins with the molecular marker eIF4E: A prognostic factor for patients with head and neck cancer. Journal of Clinical Oncology, 17, 2909-2914.

Nathan, C.O., S. Franklin, F. Abreo., R. Nassar., A. Benedetti.,

J. Williams, F. Stucker.,. 1999. Expression of eIF4e during head and neck tumorigenesis: Possible role in angiogenesis. Laryngoscope Journal, 109, 1253-1258.

Dai, W., Y. Zhang and R. Nassar. 1999. A three-dimensional numerical algorithm for predicting temperature rise in resist with arbitrary geometry of pattern during x-ray exposure. Microelectronic Engineering Journal, 49, 216-231.

Dai, W., and R. Nassar. 1999. A finite difference method for solving the heat transport equation at the microscale. Numerical Methods for Partial Differential Equations, 15, 697-708.

Dai, W., and R. Nassar. 1999. A domain decomposition method for solving thin film elliptic interface problems with variable coefficients. Int. Journal for Numerical Methods in Engineering, Vol 46, 747-756.

Dai, W., R. Nassar., S. Shabanian, and J. Maxwell. 1999. A numerical model for simulating axisymmetric rod growth in three-dimensional laser chemical vapor deposition. Numerical Heat Transfer, Part A, 36, 251-262.

Nassar, R., M. Vasile, and J. Maxwell. 1999. A mathematical model for optimizing a laser induced photopolymerization process. SPIE, 3875, 124-132.

Dai, W., Y. Zhang., and R. Nassar. 2000. A hybrid finite element-alternating direction method for solving parabolic differential equations on multilayers with irregular geometry. Journal of Computational and Applied Mathematics, 117, 1-16.

Dai, W., And R. Nassar. 2000. A compact finite difference scheme for solving a three-dimensional heat transport equation in thin film. Numerical Methods for Partial Differential Equations, 16, 441-458.

Dai, W., and R. Nassar. 2000. A domain decomposition method for solving three-dimensional heat transport equations in a double-layered thin film with microscopic thickness, Numerical Heat Transfer, 38, 243-255.

Nathan, C.O., K. Sanders, W. abreo, R. Nassar, and J. Glass. 2000. Correlation of p53 and the Proto-Oncogene eIF4E in Larynx Cancers: Prognostic Implications, J. of Cancer Research, 60, 3599-3604.

Kathula, V., R. Mckim, and R. Nassar. 2000. Prediction of sewer pipe performance using Markovian Methods, North American No-Dig 2000.

Nassar, R., A. Luebbert, J. Schmidt, and Q. Zhao. 2000. Mathematical model for oxygen mass transfer in a bubble column, *Hung. J. of Industrial Chemistry*,

Nassar, R. W. Dai, C. Zhang, H. Lan, and J. Maxwell. 2000. A mathematical model for process control in laser chemical vapor deposition. *Proceedings of the Third International Conference on Modeling and Simulation of Microsystems*, San Diego, Calif.

Dai, W. and R. Nassar. 2000. A preconditioned Richardson method for solving three dimensional thin film elliptic problems with first order derivatives and variable coefficients. *International Journal of Numerical Methods for Heat and Fluid Flow*, 10, 477-487.

Dai, W. and R. Nassar. 2000. A hybrid finite element-finite difference method for solving three dimensional heat transport equations in double layered thin films with microscale thickness. *Numerical Heat Transfer, Part A*, vol. 38, 573-588.

Zhao, Q., R. Nassar, and D. Hall. 2001. Numerical Simulation of creep-induced buckling of thin walled pipe liners. *J. Pressure Vessel Technology*

Dai, W. and R. Nassar. 2001. A finite difference scheme for solving a three dimensional heat transport equation in a thin film with microscale thickness. *International Journal of Numerical Methods in Engineering*, 50, 1665-1680.

Dai, W. and R. Nassar. 2001. A compact finite difference scheme for solving a one dimensional heat transport equation at the microscale. *Journal of Computational and Applied Mathematics*, 132, 431-441.

Dai, W, R. Nassar and L. Mo. 2001. A domain decomposition method for solving 3-D heat transfer equations in double layered cylindrical thin film with microscale thickness and nonlinear interfacial conditions, *Numerical Heat Transfer, Part A*, vol. 40, pp. 619-638.

Dai, W, and R. Nassar. 2001. A finite difference method for solving 3-D heat transfer equations in double layered thin film with microscale thickness and nonlinear interfacial conditions, *Numerical Heat Transfer, Part A*, vol. 39, pp. 21-33.

Balasubramanian, V., AM Hollister, CJ Robinson, R Nassar, and T. Ehsan. 2001. Effect of adult-onset diabetes and/or peripheral neuropathy on accelerated threshold detection during horizontal translation. *Proceedings of the RESNA 2001 Annual Conference*, R. Simpson, Ed. RESNA Press.

Black, H., R. Nassar, and W. Dai. 2001. Fluid flow in microchannels: a Stochastic approach. *SPIE*, 4557, 233-241.

Chandy, B., F. Abreo, R. Nassar, F. Stucker, C. Nathan. 2002. Expression of the proto-oncogene eIF4E in inflammation of the oral cavity. *Otolaryngology Head and Neck Surgery*, 126, 290-295

Nassar, R, W. Dai, and Q. Chen. 2002. An axisymmetric numerical model for simulating kinetically limited growth of a cylindrical rod in 3d laser-induced chemical vapor deposition, *Journal of Material Sciences and Technology*, 18, 127-132.

Dai, W. and R. Nassar. 2002. An approximate analytic method for solving dual-phase-lagging heat transfer equations, *International Journal of Heat and Mass Transfer*, vol. 45, pp. 1585-1593.

Dai, W. and R. Nassar. 2002. Compact ADI scheme for solving parabolic differential equations, *Numerical Methods for Partial Differential Equations*, vol. 18, pp. 129-142.

Nassar, R, C. Zhang, W. Dai. H. Lan and J. Maxwell. 2002. Mathematical modeling of three-dimensional laser chemical vapor deposition, *Microelectronic Engineering*, 60, 395-408.

Nassar, R., and M Yousef. 2002. Analysis of creep failure times of cured-in-place pipe rehabilitation liners. *Trenchless Technology Research. Tunelling and Underground Space Technology*, 17, 327-332.

Loth, F., Jones, S.A., Zarins, C.K., Nassar, R., Giddens, D.P., Glagov, S., and Bassiouny, H. 2002. Shear stress modulates anastomotic intimal hyperplastic thickening, *Journal of Biomechanical Engineering*, 124, 44-51.

Dai, W. and R. Nassar. 2002. An unconditionally stable finite difference scheme for solving 3-D heat transport equation in a sub-microscale thin film. *Journal of Computational and Applied Mathematics*, 145, 247-260.

Dai, W. and R. Nassar. 2002. A linear finite difference scheme for solving nonlinear micro heat transport equation in symmetric thin film. *Proceedings of the IUTAM Symposium on Complementary-Dual Variational Principles in Nonlinear Mechanics*, Shanghai, China, August 12-16.

Nassar, R., W. Dai, and Q. Chen. 2002. An axisymmetric numerical model for simulating kinetically limited growth of a cylindrical rod in 3d laser chemical vapor deposition, *J. of Material Science and Technology*, 18, 127-132.

Zhang, C., W. Dai, R. Nassar, and L. Hong. 2003. Inverse model for optimizing the process of fabricating a microstructure. SPIE 4979, 540-548.

Hong, L., R. Nassar, W. Dai, and C. Zhang. 2003. Hybrid mathematical model for simulating axisymmetric rod growth with mass transport limited rates. SPIE, 4979, 549-560.

Zhao, W., R. Nassar, and D. Hall. 2003. Incorporating reliability into the design of pipeline rehabilitation liners. Proceedings of the North American Society of Trenchless Technology, Las Vegas, Nevada.

Gupta, N., A. Patel, R. Nassar, Y. Lvov, M. Mcshane, J. Palmer. 2003. Study of transport phenomena of FITC labeled dextran through nano self assembled microshells. Proceedings of the American Institute of Chemical Engineers annual meeting, New Orleans.

Dai, W., L. Shen, and R. Nassar. 2003. A convergent three-level finite difference scheme for solving a dual-phase-lagging heat transport equation in spherical coordinates. Numer Methods Partial Differential Eq. 20: 60-71.

Dai, W., Z. Feng, R. Nassar and J. Palmer. 2003, A combined analytic and numerical method for predicting the solid layer growth from melt crystallization, *Numerical Heat Transfer, Part A*, vol. 44, 577-590, 2003.

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