

• Curriculum Vitae

General Information

Name Fathi Mahmoud Allan
Current Address Department of Mathematical Sciences
United Arab Emirates University
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- **Education:**
- **Ph. D.** Appl. Math., University of Colorado at Boulder, USA, 1992.
Thesis: "Numerical investigation of transition to turbulence in the Blasius boundary layer"
- **M.Sc.** Appl. Math., University of Missouri at Columbia, USA, 1982.
- **B.Sc.** Math., Birzeit University, Palestine, 1978.

- **Professional Experience:**
- Professor, Department of Mathematical Sciences, UAEU, Sept. 2008-present
- Associate Prof., Dept. of Mathematical Sciences, UAEU, 2003-2008
- Visiting scholar, MIT, Cambridge, MA, USA. 2002-2003
- Assoc. Prof., Department of Mathematics, Boston University, MA, USA, Spring 2003 (Part time)
- Associate Prof. Birzeit University, May, 2001- 2002
- Assistant Prof., Birzeit University, Palestine, 1996-2001
- Visiting Researcher, University of Paris XI, Orsay, France, 1995-1996.
- Assistant Prof., Birzeit University, Palestine, 1992-1995.
- Teaching Assistant, University of Colorado at Boulder, USA, 1987-1992.
- Math. Instructor, Birzeit University, Palestine, 1982-1987.
- Academic Assistant, University of Missouri at Columbia, USA, 1980-1981.
- Academic Assistant, Birzeit University, Palestine, 1980-1981.
- Math. Teacher, Catholic High School, Palestine, 1978-1980.

- **Scholarships, Honors and awards:**
- **Department of Mathematics Excellent in Scholarship Award**, 2008-2009.
- **8th. UAEU annual research conference student project award, 2008/2009**
- **Fulbright Scholarship**, MIT, MA, USA 2002-2003.
- **French Ministry of Higher Education**, France, University of Paris XI, Orsay, 1995-1996.
- **Birzeit University Scholarship**, 1990-1992.(PhD studies)
- **A.S.A.I.** (Arab Student Aid International), 1987-1990. (PhD studies)

- **UNESCO Scholarship**, 1987-1990. (PhD studies)
- **AMIDEAST Scholarship**, 1981-1982.(MSc. Degree)
- **Dean's Honor list student**, Birzeit University, 1957-1978.
- **Birzeit University Scholarship**, 1975-1978.

- **Teaching experience:**

- **Courses taught: Graduate level: (Palestine)**
 1. Operation Research, Al Quds University Palestine.
 2. Statistics and Research Methodology, MBA program, Birzeit University Palestine.

- **Courses taught: Undergraduate level:**
- a) **BirZeit University, Palestine:**
- **Mathematics:**
Calculus I , II and III, Discrete Mathematics, Differential Equations, Linear Algebra, Applied Mathematics, Complex Variables, Discrete Chaos, Real Analysis I, Dynamical Systems, Numerical Analysis
- **Financial Mathematics**
Game Theory, Business Mathematics, Finance, Introduction to Statistics for Business Students, Probability Theory.
- **Computer Science:** Introduction to Computer Science, Pascal and Fortran.

- b) **United Arab Emirates University:**
- **Mathematics:**
Calculus I and II, Applied Mathematics, Classical mechanics, PDE's, ODE's, Numerical Analysis I and Numerical Analysis II, Engineering Mathematics I, II , III and IV, Mathematics for teachers I, and II, Linear Programming, Linear Algebra, research project, Computer in education

- **Computer Skills:**
- **Computer languages and software:** BASIC, FORTRAN, C++. Parallel Programming. UNIX, Windows, DOS. VAX. Mathematica, MATLAB.
- **Statistical Software:** SAS, SPSS and STATA.

- **Other Work Experience:**
- Chairman, Dept. of Mathematics, BZU, Sept. 2000-2002
- Chairman, Dept. of Mathematics, BZU, 1994-1995.
- Elected member of the Academic Council of Birzeit Univeristy, 1998-2001.
- Consultant, The Palestinian Central Bureau of Statistics, Al-Bireh, Palestine, 1996
- Member: Establishing Committee of The Program of Mathematical Economics, Mathematics Department, Birzeit University, Palestine.1998
- Member of the Establishing committee for Master program in Scientific Computing, Bir Zeit University, Palestine, 2000

- Chairman of the organizing Committee: The Second Palestinian International Conference on Mathematics, Birzeit University, August 19-22, 1998.
 - Member of the Organizing Committee: The Third Palestinian International Conference on Mathematics, Beithlahem University, August 19-22,2000.
 - Member of the Organizing Committee: The Second International Conference on Mathematics, United Arab Emirates University, Dec. 2004.
 - Member of the Organizing Committee: The Third Math. Day, United Arab Emirates University, April 2004.
 - Member of the Organizing Committee: The Second International Conference on Mathematics, United Arab Emirates University, Dec. 2004.
 - Member of the organizing committee for the 7th WSEAS International Conference on software engineering, parallel and distributed system (SEAD'08)
 - Member of the international scientific committee for the International Conference on "Recent Developments in Fluid Mechanics" July, 2-4 2007, organized by Fluid Mechanics Group (FMG), Quaid-i-Azam, University, Islamabad, Pakestan
 - Member of the organizing committee for the third international conference of Mathematical Sciences (ICM2008), UAEU
 - Member of the scientific committee for the third international conference of Mathematical Sciences (ICM2008), UAEU
 - Member of the organizing committee for Mathematica Gulf Conference, Dec. 2007
 - Member of the organizing committee for the symposium on teaching and learning Mathematics, Nov. 2007.
- **Professional organizations memberships:**

ICSRS (International Center for Scientific Research and Studies) (Founder member).
PSMS (Palestinian Society for Mathematical Sciences)
ICMI (International Committee for Mathematics Instructors)
CAMS (Center for Advanced Mathematical Studies), A. U. B., Lebanon.
ISDEA, International Society for Difference Equations and Applications.
WSEAS
ASME (American Society for Mechanical Engineering)
- **International Journals' Editorial Board:**
 1. International Journal of Open Problems in Computer Science and Mathematics.
<http://www.ijopcm.org>
 2. International Journal of Pure and Applied Mathematical Sciences,
<http://www.gbspublisher.com/ijpams.htm>
 3. Antarctica Journal of Mathematics.
<http://www.angelfire.com/ok3/prof/journal.htm>

- **Research Grants:**
 - a. "Numerical Investigation of transition to turbulence of fluid flow over moving surfaces", Bir Zeit University, Palestine, ISESCO, 1998, (\$7000).
 - b. "On similarity solutions of boundary layer problems over moving surfaces" French Ministry of Higher Education, 1995, 120,000 FF
 - c. "On the dynamics of mixing of the Benard problem", UAEU, 2004-2005, 11500 AED
 - d. "Fluid mechanics of multi layer flows", UAEU, 2005-2006, 11500 AED
 - e. "Series solutions for axially symmetrical boundary layers-rotation near the ground", UAEU, 2006-2007, 14500 AED
 - f. "Mathematical modeling of ground water pollution due to oil spills", UAEU, 2007-2008, 14500, AED

- **Research Interests:**
 - Computational Fluid Mechanics and porous media.
 - Dynamical systems
 - Numerical analysis
 - Ordinary and Partial Differential and Difference Equations.
 - Environmental Mathematics

- **Invited Talks:**
 - a) "On the analytic solutions of boundary value problems with infinite domain", The American University of Sharjah, Feb. 10th. 2005.
 - b) "On the existence and non-uniqueness of the modified Falkner-Skan Equation", CAMS, AUB, Lebanon, Jan. 2000.
 - c) "Finite difference simulation of transition to turbulence of fluid flow over a flat plate", Ninth international colloquium on numerical analysis and computer science with applications, Plovdiv, Bulgaria, August 2000.
 - d) Twelfth International Conference On Difference Equations And Applications (ICDEA2007). Lisbon , July 23-27, 2007 .
 - e) "On the similarity solutions of boundary layer problems over moving surfaces", International Conference on Mathematical Models and Methods in fluid Mechanics, Pakistan Academy of Sciences, Islamabad, June 7-9, 2008
 - f) "Multi layer flows, Exact and approximation solutions at the interface regions", International Conference on Mathematical Models and Methods in fluid Mechanics, Pakistan Academy of Sciences, Islamabad, June 27-29, 2009.

- **Master Theses Supervisor:**
 - **Tahani Amro**, "Series solutions of nonlinear initial value problems", Department of Mathematics, Hebron Poly-technique university, Palestine, June 2009-present
 - **Nojoud Mohamad Jawhar** "Flows in porous media and environmental impact", Department of Geology, UAEU, Dec. 2008
 - **Mohammad Takatka**, Analysis of Magneto-hydro-dynamic flow through porous media, Al Quds University, Aug 2000.

- **Khaled Takatka** , “One-way and two-way interaction gas particular flow through porous media”, Al Quds University, Dec.2000.
- **Master theses external examiner:**
 - The Fourier transforms and its applications, By Rehab AL Zier, Alquds University , Dec. 2000 .
 - The Walrasian Equilibrium, by Abdul Rahman Nur, Al-Najah University, January, 2002.
 - “Fredholm Integral Equations and applications”, by Khaled Salah, Alquds University, February, 2002.
- **Publications:**
 - Four of my articles were considered among the hottest topics in the journals, these articles are:
 1. **F. Allan**, *Derivation of the Adomian Decomposition Method using the Homotopy Analysis Method*, J. Applied Math and Computation. Volume 190, Issue 1, 1 July 2007, Pages 6-14. For the two periods: Jan-March, 2007, and April-June, 2007.
 2. **F. Allan**, K. Al Khaled “[*An approximation of the analytic solution of the shock wave equation*](#)”J. Comp. Appl. Math., Volume 192, Issue 2 ,pp. 301-309, 2006 . April-June-2006
 3. **Allan, Fathi M., Syam, Muhammed I.** “*On the analytic solutions of the nonhomogeneous Blasius problem*” ,[*J. Comput. Appl. Math.*](#) 182, No. 2, 362-371 (2005), April-June-2005
 4. K. Elkhaled, **F. Allan**, *Construction of solution of shallow water equation by decomposition method*, Math. Comp. Sim. **66**, 6, pp.479-486. 2004. For the two periods: July-September, 2004, Oct.-Dec. 2004.

Reviewed Journals and proceedings:

1. **F. Allan**, M. A. Hajji, “*Multi-Layer Parallel Shooting Method for Multi-Layer Boundary Value Problems*” δ^{th} . International conference on innovations in information technology. Innovations’09, Dec.15, 2009, UAEU, Al Ain, UAE.
2. **F. Allan**, M. A. Hajji, M. N. Anwar, “*The Characteristics of Fluid Flow Through Multilayer Porous Media*, J. Appl. Mech.January 2009, Volume 76, Issue 1, 014501 (7 pages)
3. **F. Allan** and M. Syam "On the Dynamics of mixing of Benard problem", Chaos, Solitons and Fractals, Volume 40, Issue 3, 15 May 2009, Pages 1552-1558
4. M. Hajji and **F. M. Allan**,M. "Mathematical Manipulation of the Interface Region of Multilayer Flows", Journal of Porous Media 12(5),2009,pages 461-475.
5. **F. Allan**, “*Construction of analytic solutions of chaotic dynamical systems using Homotopy analysis method* “, Chaos, Solitons and Fractals, Volume 39, Issue 4, 28 February 2009, Pages 1744-1752

6. **F. Allan**, *Derivation of the Adomian Decomposition Method using the Homotopy Analysis Method*, J. Applied Math and Computation. Volume 190, Issue 1, 1 July 2007, Pages 6-14
7. M.H. Hamdan and **F.M. Allan**, *A Note on the Generalized Beltrami Flow through Porous Media*. International Journal of Pure and Applied Mathematics. Vol. 27 #4, pp. 491-500. (2006)
8. **F.M. Allan** and M.H. Hamdan, "*Fluid-particle model of flow through porous media: The case of uniform particle distribution and parallel velocity fields*" Accepted. J. Applied Math and Computation.(2006) Volume 183, Issue 2, 15 December 2006, Pages 1208-1213.
9. T. L. Alderson, **F.M. Allan** and M.H. Hamdan, *On the universality of the von Mises transformation*. Accepted. Int. J. Pure and Applied Math. (2006)
10. **F. Allan**, K. Al Khaled "*On the analytic solution of fully developed shock wave equation*" J. Comp. Appl. Math. Volume 192, Issue 2 ,pp. 301-309, 2006 .
11. K. Elkhaled, **F. Allan**, *The decomposition method for solving the non-linear Volterra-Fredholm integro-differential equations*, Korean J. Appl. Math. and Computing, Vol. 19, NO. 1-2, pp. 415-425, 2005.
12. **F.M. Allan**, M.T. Kamel, T.A. Mughrabi and M.H. Hamdan, *Infiltration of Oil into Porous Sediments*. Journal of Applied Math and Computation, Vol. 177#2, pp. 659-664.(2005)
13. **F. Allan**, and M. Syam, "*on the analytic Solutions of the non-homogeneous Blasius Problem*". J . Compt. Appl. Math. Vol. 182, No. 2, pp. 362-371, 2005
14. **F. Allan**, N. A. Qatanani, I. A. Barghouthi, K. Takatka, *Dusty Gas Model of Flow Naturally Occurring Porous Media*, Appl. Math. Comp. ,**148**, 3, pp. 809-821,2004.
15. **F. Allan**, *On the existence and non-uniqueness of solution of the Modified Falkner-Skan equation*. J. Com. Anal. Appl. Vol.6,No.3,277-286, (2004)
16. K. Elkhaled, **F. Allan**, *Construction of solution of shallow water equation by decomposition method*, Math. Comp. Sim. **66**, 6, pp.479-486. 2004
17. A. Barghouthi, N. A. Qatanani, and **F. Allan**, *Monte Carlo Simulation of Boltzmann Equation in Space Plasma at High Latitudes*. Monte Carlo Methods and Applications, Vol. **9**, 3, pp 202-216. 2003.
18. **F. Allan**, A. Ghoneim, Y. Marzouq, *On the Dynamics of Mixing of the Stratified Shear Layer*, Frontiers of Science and Technology, Istanbul, Turkey, Sept. 2003.
19. **F. Allan** and M. Hamdan, *The Fluid Mechanics of the Interface Region Between Two Porous Layer*. Appl. Math. Comp., Vol.128, No.1,pp.37-43, 2002.
20. **F. Allan**, *Further Solutions of Falkner-Skan Equation*. Bul. Stiint. Univ. Baia Mare, Romania, Vol. XV, pp.1 1-8, 1999.
21. **F. Allan** and R. Abu Saris, *On the existence and non-uniqueness of solution of the boundary layer equation of an upstream moving wall*. Proceedings of the Second International Palestinian Conference, Gordon

and Breach Scientific Publisher, Australia, 2000.

22. R. Abu-Saris and **F. Allan**, *Periodic rational sequences involving the maximum function*, Far East J. Math. Sci. (FJMS), 1(3), pp335-342, 1999.
23. R. Abu-Saris and **F. Allan**, *Periodic and Non-periodic Behavior of Solutions of $x_{n+1} = \max\{x_n, A\}/x_n x_{n-1}$* , Proc. Of the second ICDEA, Gordon and Breach Science Publisher, Australia, pp9-17,1997
24. **F. Allan**, *On similarity solutions of a boundary layer problem over moving surfaces*, Appl. Math. Letters, Vol. 10, No. 2, pp. 81-85, 1997.

Conference papers:

1. **F. Allan**, “Series solutions for axially symmetrical boundary layers-rotation near the ground”, Proceedings of the 9th. Annual conference of UAEU. April 2008.
2. **Allan, F.**, M aryam Rashid. And Hala Aqqad.,” *Polynomial approximation of non-linear chaotic dynamical systems using Taylor’s method*”, Proceedings of the 9th. Annual conference of UAEU. April 2008. (**Student project**)
3. **Allan, F.**, M.H. Hamdan, “*Arbitrary Finite Difference Schemes for Coupled Parallel Flow Over Porous Layers*”, Page: 246., Theoretical and Experimental Aspects of Fluid Mechanics, Editors: Sohrab, S., Catrakis, H., and Benra, F. K., WSEAS Press, (2008)
4. **Allan, F.**, Shefa Abu Ghneim. And Wajeeh S.,” Simple mathematical models for flow through channels”, Proceedings of the 8th. Annual conference of UAEU. April 2007. (**Student project**)
5. **Allan, F.**, M. Anwar and S. Al Sadi, “Exact solution for the interface velocity for multi layer flows”, Proceedings of the 8th. annual conference of UAEU. April 2007. (**Student project**)
6. **Allan, F.** and M. Syam, “*The dynamics of mixing of fluid heated from below*”, Proceedings of the 7th. annual conference of UAEU. April 2006.
7. **F. Allan**, and A. Hygazi, “*Construction of analytic solutions for Lorenz systems*”, Proceedings of the 7th. Annual conference of UAEU. April 2005. (**Student project**)
8. **Allan, F.** *On the analytic solution of non-linear boundary value problem with infinite domain*”, Proceedings of the 6th. annual conference of UAEU. April 2005.

- **Books:**

1. **F. Allan et al.** (*Co-editor*),” Proceeding of the second Palestinian International Conference on Mathematics”, World Scientific, Singapore, 2000.
2. **F. Allan et al.**, “Mathematics for 7Th Grade”, (Main author), Palestinian Ministry of Education, 2002. (in Arabic).

- **Book review**

Elaydi, S. “Introduction to difference equations and applications”

- **Submitted Papers:**

1. M. Syam, **F. Allan**, “*On the computations of simple fold points for nonlinear elliptic eigenvalue problems.*”

2. **F. Allan, M.Syam** “ *Path-Following Method for Singularly-Perturbed Initial-Value Problems*”
 3. **F. Allan and Qasem Al Mdallal**, “Series solutions of the Modified Falkner-Skan equation”
- **Undergoing research papers:**
 1. **F. Allan, M. Hajji, and M. H. Hamdan**, “Boundary Vorticity Approximations in Viscous Flow through Curvilinear Domains Using In-field Grid Points”
 - **Journal reviews:** I often review articles for the following journals
 1. Physics Letters A.
 2. AMEN “Applied Mathematics E-Notes”
 3. Journals, books and Proceedings of WSEAS
 4. CAM, “Journal of Computational Applied Mathematics”
 5. ASME (American Society for Mechanical Engineering), “J. Applied Mechanics”
 6. Asian Pacific Journal of Mathematics
 7. Computer and Mathematics with Applications
 8. Mathematical and Computer Modeling
 9. International Journal of Scientific Research (IJSRU) , UAE University
 10. IJST, Ibn Elhaitham Journal of Science and Technology
 11. International Journal of Computer Mathematics
 12. Journal of Mathematical Control Science and Applications (JMCSA)
 - **International Conferences:**
 1. **F.Allan, M. A. Hajji**, “*Multi-Layer Parallel Shooting Method for Multi-Layer Boundary Value Problems*”^{6th}. International conference on innovations in information technology. Innovations’09, Dec.15, 2009, UAEU, Al Ain, UAE
 2. **F. Allan**, “Series solutions for axially symmetrical boundary layers-rotation near the ground”, Proceedings of the 9th. Annual conference of UAEU. April 2008.
 3. **Allan, F.**, M aryam Rashid. And Hala Aqqad.,” *Polynomial approximation of non-linear chaotic dynamical systems using Taylor’s method*”, Proceedings of the 9th. Annual conference of UAEU. April 2008. (**Student project, Best research project award**)
 4. **Allan, F. and M. Hajji**,” *Multi-dimensional shooting method for non-linear boundary value problems*”, IMACS9- March 17-20, 2008, Lille, France.
 5. **Allan, F. and Q. Almdallal**, “*Approximation of the analytic solution of the non-homogenous Falkner-Skan equation*”, ICM-08, UAEU, March-3, Al Ain (2008)
 6. **Allan, F. and M. Hajji**,” *Multi-dimensional shooting method for Multi-channel flows through porous media*”, 6th-UAE Math Day, April 26-27, PI Abu Dhabi (2008)
 7. **Allan, F. and M. Hajji**,” *Error analysis of Multi-dimensional shooting method*”, July 27-29, Bir Zeit University, Palestine, (2008)
 8. **Allan, F.** “The mathematical analysis of fluid mixing” 3rd. international

- conference on "Mathematical Models and Methods in Fluid Mechanics" , Islam Abad, 7-9 July, 2008. (Invited speaker)
9. **Allan, F.**, "Error analysis of the series solution of chaotic dynamical systems using the modified homotopy analysis method", ISAAC 2007, Ankara, Turkey, August 13th. 2007
 10. **Allan, F.**, M. Anwar and S. Al Sadi, "Exact solution for the interface velocity for multi layer flows", Proceedings of the 8th. annual conference of UAEU. April 2007.
 11. **Allan, F.**, Shefa Abu Ghneim. And Wajeeh S., "Simple mathematical models for flow through channels", Proceedings of the 8th. Annual conference of UAEU. April 2007.
 12. **F. Allan**, "Construction of series solution of nonlinear differential operators using the homotopy analysis method", 5th. UAE Math Day, Etisalat University, Sharja, UAE, April 28th., 2007
 13. **F. Allan**, "A Note on the Generalized Beltrami Flow through Porous Media.", 4th. UAE Math Day, Sharjah University, Sharjah, UAE, April 28th., 2006
 14. **F. Allan**, and A. Hygazi, "Construction of analytic solutions for Lorenz systems", Proceedings of the 7th. Annual conference of UAEU. April 2005.
 15. **F. Allan**, and M.Syam "The dynamics of mixing of fluid heated from below- the Benard problem", the 7th. Annual conference of UAEU. April 2005.
 16. **F. Allan**, "On the analytic solution of non-linear boundary value problem with infinite domain", 6th. Annual conference of UAEU. April 2005.
 17. **F. Allan** , *The mathematical analysis of fluid mixing*, The Third MIT Conference on Computational Fluid and Solid Mechanics, Boston, MA, June 14-17, 2005.
 18. **F. Allan**, "The dynamics of mixing of the stratified shear layer", Conference on Differential and Difference equations, CDDE 2005, August, 24-27, 2005, Poland
 19. **F. Allan**, "The fluid mechanics of the interface region of multi-layer flows", The Second International Conference on Mathematics and applications (ICM2004) UAE, AL Ain, Dec. 14-16, 2004.
 20. **F. Allan**, "On the analytic solution of nonlinear boundary value problems arising in fluid mechanics", Second Math. Day, American University of Sharjah, Sharjah, April 1st. 2004.
 21. **F. Allan**, "On the dynamics of mixing of the stratified shear layer", Frontiers of science and technology, Istanbul, Turkey, Sept. 2003.
 22. **F. Allan** and R. Abu Saris, *On the existence and non-uniqueness of solution of the boundary layer equation of an upstream moving wall*. The Second International Palestinian Conference, Birzeit University, Birzeit, Palestine, July, 2000.
 23. **F. Allan**, *On the existence and non-uniqueness of solution of the generalized Falkner-Shan equation*. Bio-Math. Conference, Alanya, Turkey, July 1999.
 24. **F. Allan**, and M.Hamdan, "Electorfluid-Dynamics in Porous Media: Part I, integrality Conditions.", The Second Palestinian Int. Conference, Birzeit, Aug.212-23, (1998).
 25. **F. Allan** and J.H. Curry, *On the transition to turbulence of the Boundary layer over a flat plate*, The Second International Conference on Difference Equations and Applications, Vizsprem, Hungary, Abstract: p. 9, August 7-11, 1995.
 26. **F. Allan**, *On the similarity solutions of a boundary layer problem over a moving*

- wall*, The Second Jordanian Mathematics Conference, Mu'tah University, Jordan, M505, Sept. 11-14,1994.
27. **F. Allan**, *Numerical Investigation of the transition to turbulence in the Blasius Boundary Layer*, The First Annual Conference of the Palestinian Society of Mathematical Sciences, Birziet, A2: p. 77 June 16-18, 1993.

- **International Conferences and workshops (Attendance only):**

1. “The first international conference on medical and biological physics”, UAE, March 27th., 2005.
2. “ The Laptop and E-Learning Faculty Forum”, April 2nd. 2005. Zayid University, Abu Dhabi.
3. Midwest Dynamical Systems Workshop, University of Cincinnati, Ohio, USA, Sept.27-30,2000.
4. The 8th International conference of Mathematics Instructors (ICMI 8), Seville , Spain, Aug. 1996.

- **Referees**

1. Prof. M. Syam, Department of Mathematical Sciences, UAEU, m.syam@uaeu.ac.ae
2. Prof. M. N. Anwar, Department of Mathematical Sciences, UAEU, m.anwar@uaeu.ac.ae
3. Prof. James H. Curry, Dept. of Applied Math. Univ. of Colorado-boulder, USA. James.H.Curry@colorado.edu
4. Prof. Ahmed Ghoniem, Dept. Of Mech, Eng. MIT, MA ghoniem@mite.edu
5. Prof. M H Hamdan, University of New Brunswick, Canada, hamdan@unbsj.ca
6. Prof. Saber Elaydi, Trinity University, San Antonio, Texas, USA., selaydi@trinity.edu
7. Prof. Ivar Ekeland. Dauphine University, Paris, France. ivar.ekeland@dauphine.fr
8. Prof. Edriss Titi, Department of Mathematics, University of California at Irvine, 92697-3875, USA etiti@math.uci.edu