

# CURRICULUM VITAE

## Personal Data

Name: Ahmed Eid Salem Al-saedi  
Nationality: Saudi  
Religion: Islam  
Date of Birth: 06/11/1964

Academic Rank: Professor

Address: Department of Mathematics,  
Faculty of Science, King AbdulAziz University,  
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## Education Record

Ph.D. (2002) Swansea University, Wales  
B.Sc. (1992) King Abdulaziz University

## Topic of Ph.D. Thesis:

The orbits of periodic solutions of many body problems

## Teaching /Research Experience

1. Professor, King Abdulaziz University (March 2011- to date).
2. Associate Professor, King Abdulaziz University (June 2006- March 2011).
3. Assistant Professor, King Abdulaziz University (2002- 2006).
4. Teaching Assistant, King Abdulaziz University (1992-1994).

## Research Interests

1. Differential Equations & Applications
2. Dynamical Systems

3. Nonlinear Analysis involving differential equations
4. Newtonian and Non-Newtonian fluid mechanics
5. Biomathematics

## **Professional Activities**

- Consultant, Vice-President, Graduate Studies & Scientific Research, King Abdulaziz University, Jeddah, Saudi Arabia (01-06-2011 – to date).
- Chairman, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (20-10-2008 – 19-10-2010).
- Course coordinator, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2004-2006).
- Member of the syllabi Committee, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2004-2005).
- Member of the Schedule Committee, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2004-2006).
- Head, Applied Mathematics and Differential Equations Group, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2006-todate).
- Schedule coordinator (Bachelor program), Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2006-todate).
- Schedule coordinator (Master program), Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia (2006-todate).
- Advisor, Students affairs, Department of Mathematics, King Abdulaziz University, Jeddah, Saudi Arabia.
- Member of the Committee for Developing Master Program.

## **Research Projects Participation**

1. Extended method of quasilinearization for impulsive three-point nonlinear boundary value problems: Project No.159/424, Scientific Research Council, King Abdulaziz University, KSA (2003).

2. Instability of Nonautonomous Impulsive State Dependent Delay Differential Systems: Project No.160/426, Institute of Research & Consultation, King Abdulaziz University, KSA (2005).
3. Diffraction of a spherical acoustic wave due to the coupling of pressure release and absorbing half planes in a moving fluid: Project No.162/426, Institute of Research & Consultation, King Abdulaziz University, KSA (2005).
4. Stability Analysis in Terms of Two Measures for Setvalued Hybrid Integro-Differential Equations: Project No.167/427, Institute of Research & Consultation, King Abdulaziz University, KSA (2007).
5. The Monotone Method and Positive Pseudo-Symmetric Solutions of a Three- Point Second Order  $p$  – Laplacian Integro-Differential Boundary Value Problem: Project No.176/427, Institute of Research & Consultation, King Abdulaziz University, KSA (2007).
6. Existence of Solutions for Nonlinear Impulsive Functional Integro-Differential Equations of Mixed Type with Anti-Periodic Boundary Conditions, Project No.428/156, Institute of Research & Consultation, King Abdulaziz University, KSA (2008).
7. Approximation of Solutions of the Forced Duffing Type Integro-Differential Equations with Integral Boundary Conditions, Project No.428/155, Institute of Research & Consultation, King Abdulaziz University, KSA (2008).
8. Existence and approximation of solutions for second order singular nonlocal boundary value problems involving integro-differential equations Scientific Research Council, King Abdulaziz University, KSA (2009).
9. A study of coupled systems of nonlinear fractional differential equations, Project No.429/47-3, Scientific Research Council, King Abdulaziz University, KSA (2009).

## **Projects in Research Group: Nonlinear Analysis and Applied Mathematics (NAAM)**

1. Some Problems of Fractional Calculus and Real world Applications (07/31/Gr).
2. Fractional Differential Inclusions: Fixed Point Approaches (08/31/Gr).
3. Maximum Principle and Global Existence for Fractional Differential Equations and Systems (15/34-RG), DSR-KAU
4. Gene-Regulatory Networks Responsible for Cellular Decision Making and Reprogramming (20/34-RG), DSR-KAU

## HiCi Category Projects

1. Numerical Analysis of PDEs and Scientific Computing (38-3/1432/HiCi)
2. Applied Mathematical Models for Stretched Flows in the Industrial and Engineering Processes (40-3/1432/HiCi)
3. Some Fundamental Flows Characterizing Realistic Fluids in a Porous Media (4-130/1433/HiCi)
4. Mathematical Models for Flows of Nanofluids (10-130/1433/HiCi)
5. Modeling and analysis of flow problems of rate type fluids over bidirectional moving surface (26-130/1435/HiCi)
6. Understanding boundary layer flows through nanoparticles (37-130/1435/HiCi)

## KACST (NSTIP) Projects

1. Non-similarity boundary layer flows of nano-fluids: 14-NAN336-03 (in progress)
2. Study on multi-scale mechanism for scalar transport in porous media: Analytical solution, numerical simulation and experimental observation: 13-MAT1231-03 (in progress)

## Research Supervision (MS)

1. **Dua'a Abdul Rauf Tasan Alqaroot**, Monotone iterative scheme for second order three-point impulsive boundary value problems (2006).
2. **Huda Afandi**, Approximate Solutions of Nonlocal Boundary Value Problems (2008).
3. **Haifa A. Al-Aleemi**, Degeneracy in some nonlinear problems (2007).
4. **Mohammed Hasan Abdulrazaq Aqlan**, Analytic approximation of solutions of forced Duffing equation with nonlinear nonlocal boundary conditions (2010).
5. **Ahmed Saad Alzaidi**, A study of Second order singular nonlocal boundary value problems (2010).
6. **Nadia Mohammed Farah** (2013).
7. **Afrah Assolami** (2014).
8. **Hana Al-Hutami** (2014)

9. **Nada Almalki** (in progress)

10. **Aala Al-shrief** (in progress).

## **Research Supervision (PHD)**

- Dua'a Abdul Rauf Tasan Alqaroot (in progress)
- Mohammed Hasan Abdulrazaq Aqlan (in progress)

## **Professional Activities**

**Reviewer:** Mathematical Reviews

**Referee:** Computer Physics Communications, Elsevier.

## **Professional Activities (Cont.)**

- Member, American Mathematical Society.

## **Editorial Services**

- **Member of the Editorial Board: Current Applied Mathematics**

## **External / Internal Examiner**

1. Girls College of Education, Jeddah, KSA.
2. King Abdulaziz University, Jeddah, KSA.
3. Riyadh University for Girls, Riyadh, KSA.

## **Courses Taught at Various Levels**

### **At Postgraduate Level**

Ordinary Differential Equations  
Nonlinear Differential Equations  
Partial differential equations  
Stability Theory

### **At Graduate Level**

Calculus  
Differential Equations  
Mathematical Physics

## **References**

- a. Dr. Ian Davies, Department of Mathematics, University College of Swansea, Swansea SA2 8PP, UK.
- b. Professor Aubrey Truman, Department of Mathematics, University College of Swansea, Swansea SA2 8PP, UK.
- c. Dr. Bashir Ahmad, Department of Mathematics, King Abdulaziz University, Jeddah, KSA.
- d. Professor Faiz Ahmad, Department of Mathematics, King Abdulaziz University, Jeddah, KSA.

## ISI Publications ( 10 December 2014 )

### 2014

[Systems ecological accounting for wastewater treatment engineering: Method, indicator and application](#)

By: Shao, Ling; Chen, G. Q.; Hayat, T.; et al.

[ECOLOGICAL INDICATORS](#)

Volume: 47 Special Issue: SI Pages: 32-42 Published: DEC 2014

[Driving force analysis of water footprint change based on extended STIRPAT model: Evidence from the Chinese agricultural sector](#)

By: Zhao, Chunfu; Chen, Bin; Hayat, Tasawar; et al.

[ECOLOGICAL INDICATORS](#)

Volume: 47 Special Issue: SI Pages: 43-49 Published: DEC 2014

[Emergy-based hybrid evaluation for commercial construction engineering: A case study in BDA](#)

By: Han, M. Y.; Shao, Ling; Li, J. S.; et al.

[ECOLOGICAL INDICATORS](#)

Volume: 47 Special Issue: SI Pages: 179-188 Published: DEC 2014

[Ecological accounting for an integrated "pig-biogas-fish" system based on emergetic indicators](#)

By: Wu, X. F.; Wu, X. D.; Li, J. S.; et al.

[ECOLOGICAL INDICATORS](#)

Volume: 47 Special Issue: SI Pages: 189-197 Published: DEC 2014

[An ecological risk assessment of heavy metal pollution of the agricultural ecosystem near a lead-acid battery factory](#)

By: Liu, Guannan; Yu, Yanjun; Hou, Jing; et al.

[ECOLOGICAL INDICATORS](#)

Volume: 47 Special Issue: SI Pages: 210-218 Published: DEC 2014

[Bibliometric indicators for sustainable hydropower development](#)

By: Han, M. Y.; Sui, X.; Huang, Z. L.; et al.

[ECOLOGICAL INDICATORS](#) Volume: 47 Special Issue: SI Pages: 231-238 Published: DEC 2014

[Indicators for contaminant transport in wetlands](#)

By: Shao, L.; Jiang, Z.; Li, Z.; et al.

[ECOLOGICAL INDICATORS](#) Volume: 47 Special Issue: SI Pages: 239-253 Published: DEC 2014

[Indicators for environmental dispersion in a three-layer wetland: Extension of Taylor's classical analysis](#)

By: Wang, P.; Li, Z.; Huai, W. X.; et al.

[ECOLOGICAL INDICATORS](#) Volume: 47 Special Issue: SI Pages: 254-269 Published: DEC 2014

[H-infinity filtering for a class of discrete-time switched fuzzy systems](#)

By: Zhang, Lixian; Dong, Xianke; Qiu, Jianbin; et al.

NONLINEAR ANALYSIS-HYBRID SYSTEMS Volume: 14 Pages: 74-85 Published: NOV 2014

[An Optimization Algorithm for Solving Systems of Singular Boundary Value Problems](#)

By: Abo-Hammour, Zaer; Abu Arqub, Omar; Alsmadi, Othman; et al.

APPLIED MATHEMATICS & INFORMATION SCIENCES Volume: 8 Issue: 6 Pages: 2809-2821  
Published: NOV 2014

[A comparison study of meshfree techniques for solving the two-dimensional linear hyperbolic telegraph equation](#)

By: Abbasbandy, S.; Ghehsareh, H. Roohani; Hashim, I.; et al.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS Volume: 47 Pages: 10-20 Published:  
OCT 2014

[Global regularity for the incompressible 2D generalized liquid crystal model with fractional diffusions](#)

By: Wang, Yanan; Zhou, Yong; [Alsaedi, Ahmed](#); et al.

APPLIED MATHEMATICS LETTERS Volume: 35 Pages: 18-23 Published: SEP 2014

[Synthesis of flower-like  \$\alpha\$ -Fe<sub>2</sub>O<sub>3</sub> and its application in wastewater treatment](#)

By: Xie, Kun; Wang, Xiang-xue; Liu, Zheng-jie; et al.

JOURNAL OF ZHEJIANG UNIVERSITY-SCIENCE A Volume: 15 Issue: 8 Pages: 671-680  
Published: AUG 2014

[Radiative Hydromagnetic Flow of Jeffrey Nanofluid by an Exponentially Stretching Sheet](#)

By: Hussain, Tariq; Shehzad, Sabir Ali; Hayat, Tasawar; et al.

PLOS ONE Volume: 9 Issue: 8 Article Number: e103719 Published: AUG 1 2014

[Nonlinear radiative heat transfer in the flow of nanofluid due to solar energy: A numerical study](#)

By: Mushtaq, Ammar; Mustafa, M.; Hayat, T.; et al.

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 45 Issue: 4 Pages:  
1176-1183 Published: JUL 2014

[Nonlinear fractional differential equations of Sobolev type](#)

By: [Alsaedi, Ahmed](#); Alhothuali, Mohammed S.; Ahmad, Bashir; et al.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES Volume: 37 Issue: 13 Pages: 2009-2016  
Published: JUL 2014

[Flow and heat transfer of a nanofluid over a hyperbolically stretching sheet](#)

By: Ahmad, A.; Asghar, S.; [Alsaedi, A.](#)

CHINESE PHYSICS B Volume: 23 Issue: 7 Article Number: 074401 Published: JUL 2014

[Complex and unexpected dynamics in simple genetic regulatory networks](#)

By: Borg, Y; Ullner, E; Alagha, A; [Alsaedi, A](#); Nesbeth, D; Zaikin, A

INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 28 Issue: 14 Article Number:  
1430006 Published: JUN 10 2014

[Peristaltic flow of Johnson-Segalman fluid in asymmetric channel with convective boundary conditions](#)

By: Yasmin, H.; Hayat, T.; ; [Alsaedi, A.](#); [Alsulami, HH](#)

APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION Volume: 35 Issue: 6 Pages:  
697-716 Published: JUN 2014

Flow of variable thermal conductivity fluid due to inclined stretching cylinder with viscous dissipation and thermal radiation

By: Hayat, T.; Asad, S.; ; [Alsaedi, A](#)

APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION Volume: 35 Issue: 6 Pages: 717-728 Published: JUN 2014

Embodied energy assessment for Macao's external trade

By: Li, J. S.; Chen, G. Q.; Wu, X. F.; Hayat, T.; [Alsaedi, A](#); Ahmad, B

RENEWABLE & SUSTAINABLE ENERGY REVIEWS Volume: 34 Pages: 642-653 Published: JUN 2014

On model for three-dimensional flow of nanofluid: An application to solar energy

By: Khan, Junaid Ahmad; Mustafa, M.; Hayat, T.; Farooq, MA; [Alsaedi, A](#); Liao, SJ

JOURNAL OF MOLECULAR LIQUIDS Volume: 194 Pages: 41-47 Published: JUN 2014

Three-dimensional flow of an Oldroyd-B fluid over a bidirectional stretching surface with prescribed surface temperature and prescribed surface heat flux

By: Hayat, Tasawar; Shehzad, Sabir Ali; Al-Mezel, Saleh; [Alsaedi, A](#)

JOURNAL OF HYDROLOGY AND HYDROMECHANICS Volume: 62 Issue: 2 Pages: 117-125 Published: JUN 2014

Systems accounting for energy consumption and carbon emission by building

By: Shao, Ling; Chen, G. Q.; Chen, Z. M.; [Alsaedi, A](#); Ahmad, B

COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION Volume: 19 Issue: 6 Pages: 1859-1873 Published: JUN 2014

Existence of solutions for nonlinear fractional q-difference integral equations with two fractional orders and nonlocal four-point boundary conditions

By: Ahmad, Bashir; Nieto, Juan J.; ; [Alsaedi, A](#); [Al-Hutami, H](#)

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS Volume: 351 Issue: 5 Pages: 2890-2909 Published: MAY 2014

MHD flow of nanofluids over an exponentially stretching sheet in a porous medium with convective boundary conditions

By: Hayat, T.; Imtiaz, M.; ; [Alsaedi, A](#); [Mansoor, R](#)

CHINESE PHYSICS B Volume: 23 Issue: 5 Article Number: 054701 Published: MAY 2014

Peristaltic Motion of Nanofluid in a Curved Channel

By: Hina, Sadia; Mustafa, Meraj; Abbasbandy, Saeid; Hayat, T.; [Alsaedi, A](#)

JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME Volume: 136 Issue: 5 Article Number: 052001 Published: MAY 2014

Thermophoresis particle deposition in mixed convection three-dimensional radiative flow of an Oldroyd-B fluid

By: Shehzad, S. A.; [Alsaedi, A](#); Hayat, T.; [Alhuthali, MS](#)

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS Volume: 45 Issue: 3 Pages: 787-794 Published: MAY 2014

Effects of heat and mass transfer in flow along a vertical stretching cylinder with slip conditions

By: Hayat, T.; Qayyum, A.; [Alsaedi, A](#).

EUROPEAN PHYSICAL JOURNAL PLUS Volume: 129 Issue: 4 Article Number: 63 Published: APR 25 2014



Peristaltic Transport of Carreau-Yasuda Fluid in a Curved Channel with Slip Effects

By: Hayat, Tasawar; Abbasi, Fahad Munir; Ahmad, Bashir; [Alsaedi, A](#)

PLOS ONE Volume: 9 Issue: 4 Article Number: e95070 Published: APR 15 2014

Virtual water accounting for building: case study for E-town, Beijing

By: Meng, Jing; Chen, G. Q.; Shao, Ling; Li, JS; Tang, HS; Hayat, T; [Alsaedi, A](#); Alsaadi, F

JOURNAL OF CLEANER PRODUCTION Volume: 68 Pages: 7-15 Published: APR 1 2014

Peristaltic flow of couple stress fluid through uniform porous medium

By: [Alsaedi, A](#); Ali, N.; Tripathi, D.; Hayat, T

APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION Volume: 35 Issue: 4 Pages: 469-480 Published: APR 2014

Magnetohydrodynamic Stretched Flow of Maxwell Fluid in Presence of Homogeneous-Heterogeneous Chemical Reactions by Three Different Approaches

By: Hayat, Tasawar; Abbas, Fakhar; Awais, Muhammad; [Alsaedi, A](#)

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE Volume: 11 Issue: 4 Pages: 953-957 Published: APR 2014

Stagnation-Point Flow of Nanofluid Through Different Utilization of Thermal Radiation Effect

By: Mustafa, M.; Farooq, M. Asif; Hayat, T.; ; [Alsaedi, A](#); Liao, SJ

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE Volume: 11 Issue: 4 Pages: 1107-1115 Published: APR 2014

Time-dependent three-dimensional boundary layer flow of a Maxwell fluid

By: Awais, M.; Hayat, T.; [Alsaedi, A](#); [Asghar, S](#)

COMPUTERS & FLUIDS Volume: 91 Pages: 21-27 Published: MAR 5 2014

Peristaltic transport of pseudoplastic fluid in a curved channel with wall properties and slip conditions

By: Hina, S.; Hayat, T.; Mustafa, M.; [Alsaedi, A](#)

INTERNATIONAL JOURNAL OF BIOMATHEMATICS Volume: 7 Issue: 2 Article Number: 1450015 Published: MAR 2014

Energy regulation in China: Objective selection, potential assessment and responsibility sharing by partial frontier analysis

By: Xia, X. H.; Chen, Y. B.; Li, J. S.; [Alsaedi, A](#); Chen, GQ

ENERGY POLICY Volume: 66 Pages: 292-302 Published: MAR 2014

Thermally Stratified Stagnation Point Flow of an Oldroyd-B Fluid

By: Hayat, T.; Hussain, Zakir; Farooq, M.; [Alsaedi, A](#); Obaid, M

INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION Volume: 15 Issue: 1 Pages: 77-86 Published: FEB 2014

Slip Effects on MHD Peristaltic Motion with Heat and Mass Transfer

By: Hina, S.; Hayat, T.; [Alsaedi, A](#)

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING Volume: 39 Issue: 2 Pages: 593-603 Published: FEB 2014

2Relationship between lower and higher order anti-periodic boundary value problems and existence results

By: Ahmad, Bashir; [Alsaedi, A](#); Assolami, Afrah

JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS Volume: 16 Issue: 2 Pages: 210-219 Published: FEB 2014

Existence results for fractional integral inclusions via nonlinear alternative for contractive maps

By: [Alsaedi, A](#); Ntouyas, Sotiris K.; Ahmad, Bashir; [Alsulami, HH](#)

BOUNDARY VALUE PROBLEMS Article Number: 25 Published: JAN 30 2014

On Computations for Thermal Radiation in MHD Channel Flow with Heat and Mass Transfer

By: Hayat, T.; Awais, M.; [Alsaedi, A](#); [Safdar, A](#)

PLOS ONE Volume: 9 Issue: 1 Article Number: e86695 Published: JAN 30 2014

Effect of Joule Heating and Thermal Radiation in Flow of Third Grade Fluid over Radiative Surface

By: Hayat, Tasawar; Shafiq, Anum; [Alsaedi, A](#)

PLOS ONE Volume: 9 Issue: 1 Article Number: e83153 Published: JAN 15 2014

Thermally Stratified Radiative Flow of Third Grade Fluid over a Stretching Surface

By: Hayat, T.; Shehzad, S. A.; Qasim, M.; Asghar, S; [Alsaedi, A](#)

JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER Volume: 28 Issue: 1 Pages: 155-161  
Published: JAN 2014

SQUEEZED FLOW AND HEAT TRANSFER IN A SECOND GRADE FLUID OVER A SENSOR SURFACE

By: Hayat, Tasawar; Hussain, Majid; Nadeem, Sohail; [Alsaedi, A](#); Obaidat, S

THERMAL SCIENCE Volume: 18 Issue: 2 Pages: 357-364 Published: 2014

Existence Theory for q-Antiperiodic Boundary Value Problems of Sequential q-Fractional Integrodifferential Equations

By: Agarwal, Ravi P.; Ahmad, Bashir; [Alsaedi, A](#); [Al-Hutami, H](#)

ABSTRACT AND APPLIED ANALYSIS Article Number: 207547 Published: 2014

Hall and Ohmic Heating Effects on the Peristaltic Transport of a Carreau-Yasuda Fluid in an Asymmetric Channel

By: Hayat, Tasawar; Abbasi, Fahad M.; [Alsaedi, A](#); Alsaadi, F

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES Volume: 69 Issue: 1-2 Pages: 43-51 Published: JAN-FEB 2014

A Reproducing Kernel Hilbert Space Method for Solving Systems of Fractional Integrodifferential Equations

By: Bushnaq, Samia; Maayah, Banan; Momani, Shaher; [Alsaedi, A](#)

ABSTRACT AND APPLIED ANALYSIS Article Number: 103016 Published: 2014

MIXED CONVECTION FLOW BY A POROUS SHEET WITH VARIABLE THERMAL CONDUCTIVITY AND CONVECTIVE BOUNDARY CONDITION

By: Hayat, T.; Shehzad, S. A.; Qasim, M.; [Alsaedi, A](#)

BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING Volume: 31 Issue: 1 Pages: 109-117  
Published: JAN-MAR 2014

Stagnation-point flow of Jeffrey fluid with melting heat transfer and Soret and Dufour effects

By: Hayat, T.; Iqbal, Z.; Mustafa, M.; [Alsaedi, A](#)

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW Volume: 24 Issue: 2 Pages: 402-418 Published: 2014

Time-dependent flow of UCM fluid with chemical reaction, thermal-diffusion and diffusion-thermo effects

By: Awais, M.; [Alsaedi, A](#); Hayat, T.

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW Volume: 24 Issue: 2 Pages: 483-497 Published: 2014

Soret-Dufour effects on MHD rotating flow of a viscoelastic fluid

By: Hayat, T.; Naz, R.; Asghar, S.; [Alsaedi, A](#)

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW Volume: 24 Issue: 2 Pages: 498-520 Published: 2014

Soret and Dufour Effects on Peristaltic Transport of MHD Fluid with Variable Viscosity

By: Abbasi, F. M.; Hayat, T.; Alsaedi, A.; [Alsaedi, A](#)

APPLIED MATHEMATICS & INFORMATION SCIENCES Volume: 8 Issue: 1 Pages: 211-219  
Published: JAN 2014

A HYDROMAGNETIC MATHEMATICAL MODEL FOR BLOOD FLOW OF CARREAU FLUID

By: Saleem, Najma; Hayat, T.; [Alsaedi, A](#)

INTERNATIONAL JOURNAL OF BIOMATHEMATICS Volume: 7 Issue: 1 Article Number: 1450010 Published: JAN 2014

Convection-radiation thermal analysis of triangular porous fins with temperature-dependent thermal conductivity by DTM

By: Moradi, A.; Hayat, T.; [Alsaedi, A](#)

ENERGY CONVERSION AND MANAGEMENT Volume: 77 Pages: 70-77 Published: JAN 2014

## 2013

A new class of fractional boundary value problems

By: Ahmad, Bashir; [Alsaedi, A](#); ; Assolami, Afrah; [Agarwal, RP](#)

ADVANCES IN DIFFERENCE EQUATIONS Article Number: 373 Published: DEC 20 2013

Unsteady MHD three-dimensional flow with viscous dissipation and Joule heating

By: Hayat, T.; Naseem, Anum; Farooq, M.; [Alsaedi, A](#)

EUROPEAN PHYSICAL JOURNAL PLUS Volume: 128 Issue: 12 Article Number: 158  
Published: DEC 19 2013

MHD unsteady squeezing flow over a porous stretching plate

By: Hayat, T.; Qayyum, A.; [Alsaedi, A](#)

EUROPEAN PHYSICAL JOURNAL PLUS Volume: 128 Issue: 12 Article Number: 157  
Published: DEC 16 2013

A nonlocal multi-point multi-term fractional boundary value problem with Riemann-Liouville type integral boundary conditions involving two indices

By: [Alsaedi, A](#); Ntouyas, Sotiris K.; Agarwal, Ravi P.; Ahmad, B

ADVANCES IN DIFFERENCE EQUATIONS Article Number: 369 Published: DEC 13 2013

Exponentially Stretching Sheet in a Powell-Eyring Fluid: Numerical and Series Solutions

By: Mushtaq, Ammar; Mustafa, Meraj; Hayat, Tasawar; Rahi, M; [Alsaedi, A](#)

ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES Volume: 68 Issue: 12 Pages: 791-798 Published: DEC 2013

Hydromagnetic rotating flow of third grade fluid

By: Hayat, T.; Naz, R.; [Alsaedi, A](#); [Rashidi, MM](#)

APPLIED MATHEMATICS AND MECHANICS-ENGLISH EDITION Volume: 34 Issue: 12 Pages: 1481-1494 Published: DEC 2013

Flow of a viscous fluid over an impermeable shrinking sheet

By: Asghar, S.; Ahmad, A.; [Alsaedi, A](#)  
APPLIED MATHEMATICS LETTERS Volume: 26 Issue: 12 Pages: 1165-1168 Published: DEC 2013

MHD axisymmetric flow of third grade fluid between stretching sheets with heat transfer

By: Hayat, T.; Shafiq, A.; [Alsaedi, A.](#); [Awais, M](#)  
COMPUTERS & FLUIDS Volume: 86 Pages: 103-108 Published: NOV 5 2013

Three-Dimensional Flow of an Oldroyd-B Fluid with Variable Thermal Conductivity and Heat Generation/Absorption

By: Shehzad, Sabir Ali; [Alsaedi, A](#); Hayat, Tasawar; [Alhuthali, MS](#)  
PLOS ONE Volume: 8 Issue: 11 Article Number: e78240 Published: NOV 4 2013

Magnetohydrodynamic Mixed Convection Flow of Thixotropic Fluid with Thermophoresis and Joule Heating

By: Hayat, T.; Shehzad, S. A.; Ashraf, M. B.; [Alsaedi, A](#)  
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER Volume: 27 Issue: 4 Pages: 733-740  
Published: OCT-DEC 2013

Melting Heat Transfer in the Stagnation Point Flow of Powell-Eyring Fluid

By: Hayat, T.; Farooq, M.; [Alsaedi, A.](#); [Iqbal, Z](#)  
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER Volume: 27 Issue: 4 Pages: 761-766  
Published: OCT-DEC 2013

INFLUENCE OF THERMOPHORESIS AND JOULE HEATING ON THE RADIATIVE FLOW OF JEFFREY FLUID WITH MIXED CONVECTION

By: Shehzad, S. A.; [Alsaedi, A.](#); Hayat, T.  
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING Volume: 30 Issue: 4 Pages: 897-908  
Published: OCT-DEC 2013

Existence of solutions for sequential fractional differential equations with four-point nonlocal fractional integral boundary conditions

By: Ahmad, Bashir; [Alsaedi, A](#); Al-Hutami, Hana  
CENTRAL EUROPEAN JOURNAL OF PHYSICS Volume: 11 Issue: 10 Pages: 1487-1493  
Published: OCT 2013

Investigation of Nanoparticles Effect on the Jeffery-Hamel Flow

By: Moradi, A.; [Alsaedi, A.](#); Hayat, T.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING Volume: 38 Issue: 10 Pages: 2845-2853  
Published: OCT 2013

MIXED CONVECTION RADIATIVE FLOW OF MAXWELL FLUID NEAR A STAGNATION POINT WITH CONVECTIVE CONDITION

By: Hayat, T.; Waqas, M.; Shehzad, S. A.; [Alsaedi, A](#)  
JOURNAL OF MECHANICS Volume: 29 Issue: 3 Pages: 403-409 Published: SEP 2013

UNSTEADY BOUNDARY LAYER FLOW OF NANOFLUID PAST AN IMPULSIVELY STRETCHING SHEET

By: Mustafa, M.; Hayat, T.; [Alsaedi, A.](#)  
JOURNAL OF MECHANICS Volume: 29 Issue: 3 Pages: 423-432 Published: SEP 2013

STAGNATION POINT FLOW OF BURGERS' FLUID AND MASS TRANSFER WITH CHEMICAL REACTION AND POROSITY

By: [Alsaedi, A.](#); Alsaadi, F. E.; Ali, S.; [Hayat, T.](#)

JOURNAL OF MECHANICS Volume: 29 Issue: 3 Pages: 453-460 Published: SEP 2013

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