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Engineering, University of Sistan and Baluchestan, Daneshgah
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Education

- ✓ MS, Mechanical Engineering-Thermo Fluids,Sistan and Baluchestan University - 2005
- ✓ PhD, Mechanical Engineering-Thermo Fluids,Sistan and Baluchestan University - 2010
- ✓ PhD, Mechanical Engineering-Thermo Fluids,Sistan and Baluchestan University - 2010

Courses

1. Advanced Engineering Mathematics 1
2. Advanced Thermodynamics
3. Engineering Mathematics
4. Statics

Journals Papers

2025

1. Thermoacoustic heat transfer in a cylinder under non-uniform thermal flow

, Faramarz Sarhaddi, Amin Behzadmehr

International Journal of Multiphysics Volume: (19) 89 - 100

2. Thermodynamics evaluation of gas turbine cycle of Zahedan gas power plant with simultaneous use of absorption inlet air cooling and steam injection

Javad Yazdanpanahi, Faramarz Sarhaddi

International Journal of Nonlinear Analysis and Applications Volume: (16) 13 - 18

3. WKB Special Expansion and the Solutions of Neo-Hookean and Varga Elastic Cylinder, Sphere and Cube

Murteza Sanjarani Pour, Faramarz Sarhaddi

Journal of Information Systems Engineering and Management Volume: (10) 932 - 957

4. Analytical Study of Perfect Insulation in a Vertical Wall Based on Internal Energy Generation

Murteza Sanjarani Pour, Faramarz Sarhaddi

Communications on Applied Nonlinear Analysis Volume: (32) 2515 - 2523

5. Semi-Analytical Solution of Thermoacoustic Heat Transfer in a Pulse Tube in the Presence of Pulsating Internal Heat Source

, Faramarz Sarhaddi, Amin Behzadmehr

Heat Transfer Volume: (54) 3266 - 3277

2024

6. Analytical Performance Evaluation Of Heat Transfer In A Rotating Disc Fin

Murteza Sanjarani Pour, Faramarz Sarhaddi

Educational Administration: Theory and Practice Volume: (30) 10289 - 10297

7. Investigation of thermal stress in annular fins with rectangular and hyperbolic profiles using homotopy perturbation method

Arman Irandegani, Murteza Sanjarani Pour, Faramarz Sarhaddi

Journal of Electrical Systems Volume: (20) 4756 - 4778

8. Application of Homotopy Perturbation Method to Analyzing Thermal Behavior of Moving Longitudinal Fins with Various Profiles

Arman Irandegani, Murteza Sanjarani Pour, Faramarz Sarhaddi

International Journal of Applied and Computational Mathematics Volume: (10) 1 - 30

9. Theoretical Investigation of Entropy Generation in a Two-Dimensional Rotating Disc Fin

Murteza Sanjarani Pour, Faramarz Sarhaddi

Power System Technology Volume: (48) 1726 - 1744

2023

10. Conceptual design of an innovative flexible and controllable Solar ORC cogeneration system for operating in remote areas

Mahdi Rahmdel, Amin Behzadmehr, Jafar Sadeghi, Hamed Farzaneh, Faramarz Sarhaddi

SOLAR ENERGY Volume: (262) 111899-1 - 111899-14

2022

11. Multi-objective optimisation of a modified solar-powered tri-generation ORC system for remote areas

Mahdi Rahmdel, Amin Behzadmehr, Hamed Farzaneh, Faramarz Sarhaddi

International Journal of Ambient Energy Volume: (43) 5376 - 5392

2021

12. Thermal simulation of a modified solar desalination system with four transparent apertures with the aim of productivity augmentation

Mahdi Hedayatizadeh, Faramarz Sarhaddi

COMPUTERS and CHEMICAL ENGINEERING Volume: (150) 1 -107314 - 107314-16

13. DYNAMIC BEHAVIOR OF THE FULL-CAR MODEL IN THE J-TURN MANEUVER BY CONSIDERING THE ENGINE GYROSCOPIC EFFECTS

, Amir Hossein Kazemian, Said Farahat, Faramarz Sarhaddi

Komunikacie Volume: (23) 237 - 249

14. Vehicles Dynamic Behavior in Fishhook Maneuver by Considering the Engine Dynamics

, Amir Hossein Kazemian, Said Farahat, Faramarz Sarhaddi

International Journal of Advanced Design and Manufacturing Technology Volume: (14) 23 - 35

15. The influence of engine gyroscopic moments on vehicle transient handling

, Amir Hossein Kazemian, Said Farahat, Faramarz Sarhaddi

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING Volume: (235) 2425 - 2441

16. Wheel slip ratio regulation for investigating the vehicles dynamic behavior during braking and steering input

, Amir Hossein Kazemian, Said Farahat, Faramarz Sarhaddi

Mechanics and Industry Volume: (22) 1 - 11

[17. Analytical solution of pulsating flow and forced convection heat transfer in a pipe filled with porous medium](#)

, Faramarz Sarhaddi, Amin Behzadmehr

Journal of Computational Applied Mechanics Volume: (52) 567 - 584

2020

[18. Exergy performance evaluation of a basin-type double-slope solar still equipped with phase-change material and PV/T collector](#)

Erfan Hedayati mehdiabadi, Faramarz Sarhaddi,

RENEWABLE ENERGY Volume: (145) 2409 - 2425

[19. A detailed thermal modeling of a passive single-slope solar still with improved accuracy](#)

Mahdi Hedayatizadeh, Faramarz Sarhaddi, Adrian Pugsley

Groundwater for Sustainable Development Volume: (11) 100384-1 - 100384-9

[20. Increasing thermal comfort of a net-zero energy building inhabitant by optimization of energy consumption](#)

Mohsen Mahdavi Adeli, Said Farahat, Faramarz Sarhaddi

International Journal of Environmental Science and Technology Volume: (17) 2819 - 2834

[21. Parametric analysis of a zero-energy building aiming for a reduction of CO2 emissions for warm climate](#)

Mohsen Mahdavi Adeli, Said Farahat, Faramarz Sarhaddi

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH Volume: (27) 34121 - 34134

[22. Optimization of Energy Consumption in Net-Zero Energy Buildings with Increasing Thermal Comfort of Occupants](#)

Mohsen Mahdavi Adeli, Said Farahat, Faramarz Sarhaddi

INTERNATIONAL JOURNAL OF PHOTOENERGY Volume: (2020) 1 - 17

[23. Thermal Performance Evaluation of Longitudinal Fins with Various Profiles Using Homotopy Perturbation Method](#)

Arman Irandegani, Murteza Sanjarani Pour, Faramarz Sarhaddi

Iranian Journal of Science and Technology Transaction A-Science Volume: (44) 1761 - 1774

2019

[24. Laminar ferrofluid heat transfer in presence of non-uniform magnetic field in a channel with sinusoidal wall A numerical study](#)

, Alireza Hossein Nezhad Devin, Faramarz Sarhaddi, Tahere Keikha

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS Volume: (471) 56 - 63

25. Optimization of the thermal lag Stirling engine performance

, Faramarz Sarhaddi,

Energy and Environment Volume: (30) 156 - 175

26. Energy/exergy based-evaluation of heating/cooling potential of PV/T and earth-air heat exchanger integration into a solar greenhouse

, Faramarz Sarhaddi, Mahdi Hedayatizadeh

APPLIED THERMAL ENGINEERING Volume: (149) 996 - 1007

27. Exergy performance assessment of a linear parabolic trough photovoltaic thermal collector

, Faramarz Sarhaddi, Mohsen Mahdavi Adeli

RENEWABLE ENERGY Volume: (138) 1028 - 1041

28. Reducing the power consumption of cascade refrigeration cycle by a new integrated system using solar energy

Saman Khalilzadeh, Alireza Hossein Nezhad Devin, Faramarz Sarhaddi

ENERGY CONVERSION AND MANAGEMENT Volume: (200) 112083 -

29. A trained neural network for the prediction of optimum operation mode of a Stirling engine

, Faramarz Sarhaddi, Amin Behzadmehr

International Journal of Mechanical and Production Engineering Research and Development Volume: (9) 293 - 306

30. Energy and Exergy Evaluation of Multi-channel Photovoltaic/Thermal Hybrid System: Simulation and Experiment

Ali Hosseini Rad, Hossein Ghadamian, Hamid Reza Haghgou, Faramarz Sarhaddi

International Journal of Engineering Volume: (32) 1665 - 1680

31. Parametric study of the impact of windows to wall ratio on reduction of energy consumption and environmental impact of a zero-energy building in different orientations

Mohsen Mahdavi Adeli, Faramarz Sarhaddi, Said Farahat

Journal of Computational Applied Mechanics Volume: (50) 295 - 302

2018

32. Numerical investigation of the effect of nanoparticles on thermal efficiency of phase change materials

Mohsen Irani, Faramarz Sarhaddi, Amin Behzadmehr

Acta Technica CSAV (Ceskoslovensk Akademie Ved) Volume: (63) 625 - 632

33. Exergy analysis of a weir-type cascade solar still connected to PV/T collectors

Faramarz Sarhaddi

IET Renewable Power Generation Volume: (12) 1336 - 1344

34. Efficiency of a photovoltaic thermal stepped solar still: Experimental and numerical analysis

Mehrnaz Naroei, Faramarz Sarhaddi,

DESALINATION Volume: (441) 87 - 95

35. Second Law Analysis for Two-Immiscible Fluids Inside an Inclined Channel in the Presence of a Uniform Magnetic Field and Different Types of Nanoparticles

, Faramarz Sarhaddi

JOURNAL OF MECHANICS Volume: (34) 541 - 549

2017

36. Performance Assessment of a Humidification-Dehumidification Desalination Unit connected to Photovoltaic Thermal Collectors

Mohammad Hosseini, Faramarz Sarhaddi

Amirkabir Journal of Mechanical Engineering Volume: (49) 653 - 662

37. Comparative study of two weir type cascade solar stills with and without PCM storage using energy and exergy analysis

Faramarz Sarhaddi, , ,

ENERGY CONVERSION AND MANAGEMENT Volume: (133) 97 - 109

38. New exergy analysis of a regenerative closed Brayton cycle

Mohammad Naserian, Said Farahat, Faramarz Sarhaddi

ENERGY CONVERSION AND MANAGEMENT Volume: (134) 116 - 124

39. Energy analysis of a stepped cascade solar still connected to photovoltaic thermal collector

Erfan Hedayati mehdi abadi, Faramarz Sarhaddi,

International Journal of Automotive And Mechanical Engineering Volume: (14) 4805 - 4825

40. Analysis and Optimization using Renewable Energies to Get Net-Zero Energy Building for Warm Climate

Mohsen Mahdavi Adeli, Said Farahat, Faramarz Sarhaddi

Journal of Computational Applied Mechanics Volume: (48) 331 - 344

41. IRREVERSIBILITY RATES IN A SOLAR PHOTOVOLTAIC/THERMAL WATER COLLECTOR: AN EXPERIMENTAL STUDY

Javad Yazdanpanahi, Faramarz Sarhaddi

HEAT TRANSFER RESEARCH Volume: (48) 741 - 756

42. Experimental investigation of a hydrogen production system using photovoltaic electrolysis process

Mohsen Irani, Faramarz Sarhaddi,

Acta Technica CSAV (Ceskoslovensk Akademie Ved) Volume: (62) 1 - 10

2016

43. Exergoeconomic multi objective optimization and sensitivity analysis of a regenerative Brayton cycle

, Said Farahat, Faramarz Sarhaddi

ENERGY CONVERSION AND MANAGEMENT Volume: (117) 95 - 105

44. Exergy loss-based efficiency optimization of a double pass/glazed v-corrugated plate solar air heater

, Faramarz Sarhaddi, , ,

ENERGY Volume: (94) 799 - 810

45. Numerical Investigation of the Nanoparticle Volume Fraction Effect on the Flow, Heat Transfer, and Entropy Generation of the Fe₃O₄ Ferrofluid under a Non-uniform Magnetic Field

Fazel Hosseinzade, Faramarz Sarhaddi, Davod Mohebbi Kalhori

STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING Volume: (62) 521 - 533

46. Exergoeconomic analysis and genetic algorithm power optimization of an irreversible regenerative Brayton cycle

Mohammad Naserian, Said Farahat, Faramarz Sarhaddi

Energy Equipment and Systems Volume: (4) 189 - 203

2015

47. Optimization of a PV/T (photovoltaic/thermal) active solar still

Farhad Saeedi, Faramarz Sarhaddi, Amin Behzadmehr

ENERGY Volume: (87) 142 - 152

48. Experimental investigation of exergy efficiency of a solar photovoltaic thermal (PVT) water collector based on exergy losses

Javad Yazdan, Faramarz Sarhaddi, Mohsen Mahdavi Adeli

SOLAR ENERGY Volume: (118) 197 - 208

49. Finite time exergy analysis and multi-objective ecological optimization of a regenerative Brayton cycle considering the impact of flow rate variations

Mohammad Naserian, Said Farahat, Faramarz Sarhaddi

ENERGY CONVERSION AND MANAGEMENT Volume: () 790 - 800

2014

50. Optimization of a solar photovoltaic thermal (PV/T) water collector based on exergy concept

, Faramarz Sarhaddi, M. A. Alavi, Said Farahat, Javad Yazdan

RENEWABLE ENERGY Volume: (68) 356 - 365

51. Multi-objective optimization of natural convection in a cylindrical annulus mold under magnetic field using particle swarm algorithm

, Said Farahat, Alireza Hossein Nezhad Devin, Ghanbar Ali Sheikhzadeh, Faramarz Sarhaddi, Somchai Wo

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER Volume: (1) 1 - 8

52. Numerical simulation of electrically conducting fluid flow and free convective heat transfer in an annulus on applying a magnetic field

, Said Farahat, Alireza Hossein Nezhad Devin, , Faramarz Sarhaddi

HEAT TRANSFER RESEARCH Volume: () 749 - 766

53. 3D numerical investigation of natural convection in a tilted cylindrical annulus containing molten potassium and controlling it using various magnetic fields

, Said Farahat, Alireza Hossein Nezhad Devin, , Faramarz Sarhaddi

INTERNATIONAL JOURNAL OF APPLIED ELECTROMAGNETICS AND MECHANICS Volume: () 809 - 821

54. NUMERICAL SIMULATION OF ELECTRICALLY CONDUCTING FLUID FLOW AND FREE CONVECTIVE HEAT TRANSFER IN AN ANNULUS ON APPLYING A MAGNETIC FIELD

, Said Farahat, Alireza Hossein Nezhad Devin, , Faramarz Sarhaddi

HEAT TRANSFER RESEARCH Volume: (45) 749 - 766

2013

55. Comparison between energy and exergy efficiencies in a weir type cascade solar still

, Farshad Farshchi Tabrizi, Faramarz Sarhaddi, Fazlollah Heshmatnezhad

DESALINATION Volume: (325) 113 - 121

56. Application of exergy analysis to improve performance a weir-type cascade solar still

, Farshad Farshchi Tabrizi, Faramarz Sarhaddi, Fazlollah Heshmatnezhad

Volume: (5) 37 - 46

57. Thermal and Electrical Assessment of an Integrated Solar Photovoltaic Thermal (PV/T) Water Collector Equipped with a Compound Parabolic Concentrator (CPC)

Faramarz Sarhaddi, Said Farahat

International Journal of Green Energy Volume: (10) 494 - 522

Conferences Papers

2021

1. The Effect of Fogg Air Cooling Inlet system on performance of Simple gas turbine units simple cycle of Zahedan gas power plant

The 29th Annual International Conference of Iranian Society of Mechanical Engineers 8th Conference on Thermal Power Plants

Javad Yazdanpanahi, Faramarz Sarhaddi, Amin Behzadmehr

2. Performance Test of G19 Unit of Zahedan Gasous Power Plant after Its Last Overhaul

The 29th Annual International Conference of Iranian Society of Mechanical Engineers 8th Conference on Thermal Power Plants

Javad Yazdanpanahi, Faramarz Sarhaddi, Amin Behzadmehr

2020

3. A review on solar water desalination

5th National Conference on Mechanical and Aerospace Engineering

Mohsen Irani, Faramarz Sarhaddi

2018

4. An experimental investigation of Unit Number G15 of Zahedan Gas Power Plant

ISME 2018

Javad Yazdanpanahi, Faramarz Sarhaddi

2017

5. A review on recently development of Photovoltaic-Thermal (PV/T) air based collector

3rd International Conference of IEA Technology and Energy Management

Ali Hosseini Rad, Hossein Ghadamian, Hamidreza Haghgou, Faramarz Sarhaddi

2015

6. Electrical and thermal Analysis of a Photovoltaic/Thermal System Equipped with Optical Filter

2nd International Conference and Exhibition on Solar Energy (ICESE 215)

Hojjatollah Karimian abdr, Faramarz Sarhaddi, Amin Namjoo

7. Experimental investigation of a hydrogen production system using photovoltaic electrolysis process

2nd Conference on New Finding in Environment and Agricultural Ecosystems

, Faramarz Sarhaddi,



8. An experimental investigation of a solar still cascade integrated to a photovoltaic thermal in ZAHEDAN power station

Javad Yazdan, Faramarz Sarhaddi