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Dr. Bilal A. Qureshi

Assistant Professor

Interdisciplinary Research Center for Renewable Energy and Power Systems (IRC-REPS)
King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary:

Over five years of experience with design and performance analysis of membrane-based desalination systems along with evaporative heat exchangers design and rating analysis and impact of heat exchanger inventory on power and refrigeration systems. Experience with thermo-economic analysis, effect of fouling as well as normalized sensitivity analysis to isolate the most important factors in these systems. Special interest in non-dimensionalization resulting in simpler models and reduced experimentation. Developing research proposals as well as publishing in the form of research articles.

Education:

- ❑ PhD Mechanical Engineering [KFUPM, Saudi Arabia, 2014]
- ❑ M. Sc. Mechanical Engineering [KFUPM, Saudi Arabia, 2004]
- ❑ B. Eng. [NUST, Pakistan, 2000]

Distinguished Projects

- *Project title "Improvement of a Simplified Model of Water Treatment by Electrodialysis"* funding by *DSR KFUPM*, Dhahran, Saudi Arabia, Role: *PI*.
- *Project title "Thermo-economic Analysis of Cascade Refrigeration Systems"* funding by *DSR KFUPM*, Dhahran, Saudi Arabia, Role: *PI*.

Research Summary

- Number of Published Papers: 41
- Citations : 1261
- H-Index : 20
- Number of Patents : 0
- Book Chapters: 0
- Article Reviewed (Elsevier, Springer, MDPI): Unknown

Award and Recognitions

Skills and Expertise

- Evaporative Heat Exchangers, Desalination, Thermo-economics, Fouling, Refrigeration ;
- First- and Second-law based system design and optimization, First- and Second-law based performance evaluation, Sensitivity analysis, Thermo-economic analysis;
- EES software, Matlab, Mathematica