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PRINCIPAL AREA OF INTEREST:

- Renewable Energy
- Thermal Engineering
- Heat Transfer

PUBLICATIONS:

1. **Babu, S.**, N. Murugan, M. Amudhan, and T. S. Lagnesh. "Fault Diagnosis and Root Cause Failure Analysis of Press Roller Mill for Heavy Industry." In Structural Integrity Assessment, pp. 631-638. Springer, Singapore, 2020.
2. **Babu, S.**, S. Senthilvel, F. Paul Gregory, and T. Gopi. "Investigations on Improving the Efficiency of Solar Air Heater Using Extended Surfaces." In Advances in Energy Research, Vol. 2, pp. 261-272. Springer, Singapore, 2020.
3. Karthick, R., and **S. P. K. Babu**. "Review on Radio Frequency Micro Electro Mechanical Systems (RF-MEMS) Switch." In International Conference on Communication, Computing and Electronics Systems, pp. 437-453. Springer, Singapore, 2020.
4. **Babu, S.**, S. Veeraragavan, and T. Ramesh. "Hardened Materials Material Deformation Study Using Digital Image Correlation Technique for Nuclear Power Plant Applications." In Structural Integrity Assessment, pp. 571-579. Springer, Singapore, 2020.
5. **Babu, S.**, N. Murugan, M. Amudhan, and T. S. Lagnesh. "Fault Diagnosis and Root Cause Failure Analysis of Press Roller Mill for Heavy Industry." In Structural Integrity Assessment, pp. 631-638. Springer, Singapore, 2020.
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- In Advances in Energy Research, Vol. 2, pp. 261-272. Springer, Singapore, 2020.
8. Gomathinayagam, A., P. Antony Stephen, **S. Babu**, and K. Keshava. "Simulation of Falling Object Protective Structure Testing of Earth Moving Equipment Cabin." In Research into Design for a Connected World, pp. 203-213. Springer, Singapore, 2019.
 9. **Babu, S.**, K. Manisekar, F. Paul Gregory, K. Ilango, TV Nirmal Kumar, and K. Kasi Aswin. "Heat distribution studies on slewing ring bearings using FLOTHERM software." In 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), pp. 1-5. IEEE, 2017.
 10. **Babu, S.**, G. Franklin, TV Nirmal Kumar, and K. Kasi Aswin. "Refrigeration using waste heat recovery from exhaust gas of engine." In 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), pp. 1-5. IEEE, 2017.
 11. **Babu, S.**, V. R. Abishraj, and S. Suthagar. "Solar thermal energy storage on PCM based integrated saw tooth collector for institutions." In 2016 First International Conference on Sustainable Green Buildings and Communities (SGBC), pp. 1-6. IEEE, 2016.
 12. **Babu, S.**, K. Manisekar, and Er S. KalaiSelvi. "Heat transfer analysis of slewing ring bearing for high thermal applications." Journal of Thermal Science and Engineering Applications 9, no. 1 (2017).
 13. **Babu, S.**, T. Prabhu, V. S. Arjun, G. Sai Phanendra, and Y. Eswar Chandra. "CFD analysis of a thermal-mixer for solar concentrated air heater." International Journal of Control Theory and Applications 10 (2017): 73-83.
 14. **Babu, S.**, D. Rajenthirakumar, A. Gomathinayagam, and K. Nivas Krishnan. "Cost Reduction of Arm Cross Bar of Wheel Loader through Value Engineering." International Journal of Engineering Research 5, no. 4 (2016): 299-302.