

International Conference on Industry 4.0 and Smart Manufacturing  
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**Abstract**

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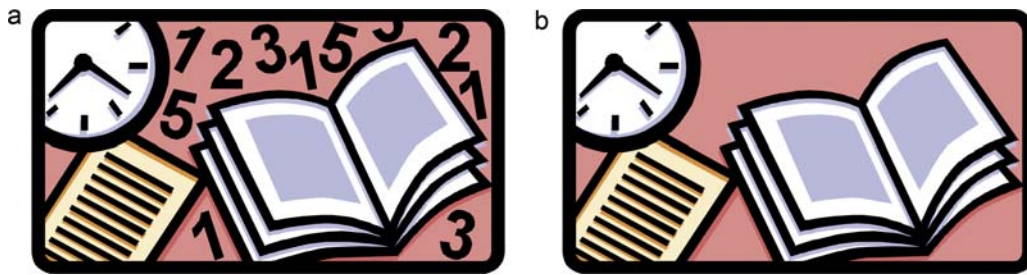


Fig. 1. (a) first picture; (b) second picture.

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$$X_r = \dot{Q}_{rad}'' / (\dot{Q}_{rad}'' + \dot{Q}_{conv}'')$$

$$\rho = \frac{\vec{E}}{J_c(T = \text{const.}) \cdot \left( P \cdot \left( \frac{\vec{E}}{E_c} \right)^m + (1 - P) \right)} \quad (1)$$

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## References

- [1] Filippini, Massimo, and Lester C. Hunt. (2011) “Energy demand and energy efficiency in the OECD countries: a stochastic demand frontier approach.” *Energy Journal* **32** (2): 59–80.
- [2] Filippini, Massimo, and Lester C. Hunt. (2012) “US residential energy demand and energy efficiency: A stochastic demand frontier approach.” *Energy Economics* **34** (5): 1484–1491.
- [3] Weyman-Jones, Thomas, Júlia Mendonça Boucinha, and Catarina Feteira Inácio. (2015) “Measuring electric energy efficiency in Portuguese households: a tool for energy policy.” *Management of Environmental Quality: An International Journal* **26** (3): 407–422.
- [4] Saunders, Harry (2009) “Theoretical Foundations of the Rebound Effect”, in Joanne Evans and Lester Hunt (eds) *International Handbook on the Economics of Energy*, Cheltenham, Edward Elgar
- [5] Sorrell, Steve (2009) “The Rebound Effect: definition and estimation”, in Joanne Evans and Lester Hunt (eds) *International Handbook on the Economics of Energy*, Cheltenham, Edward Elgar

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