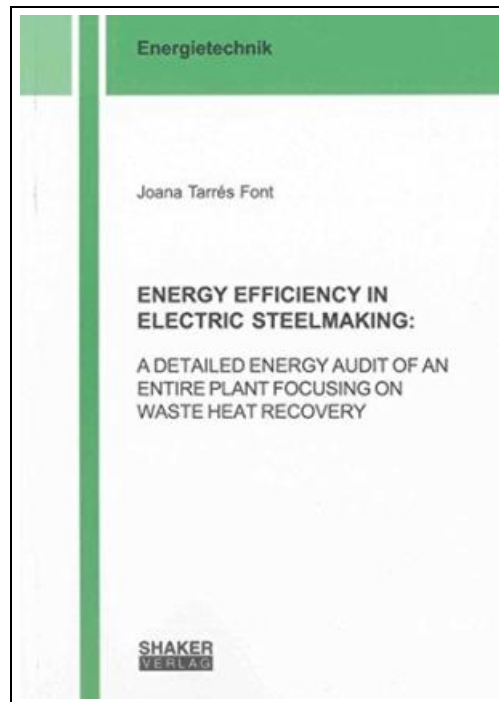


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Shaker Verlag Feb 2014, 2014. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - Steel production is a significant energy consumer. The iron and steel sector consumes 19% of the total energy consumed in industry and is the main industry consumer in Europe. Energy consumption by steel plants in Luxembourg represented 22% of the final industry energy consumption in 2007. In recent years this industry has undertaken efforts to increase energy efficiency by reducing its consumption and recovering otherwise lost heat, as state of the art research shows. Moreover, the recent European Directive 2012/27/EU on energy efficiency is promoting efficient energy supply, considering the use of waste heat for district heating and cooling. This thesis was framed in this context and its objective was to develop strategies for saving and, in particular, recovering energy in an electric steel plant. Approximately thirty options were technically and economically evaluated. In addition, a risk assessment matrix was developed to assess the technical and economic risk of each option. After a thorough energy audit, the energy consumption of the plant was established and the main waste heat sources available for heat recovery as well as the energy savings possibilities were identified. The potential energy savings in relation to the natural gas consumed in a reheating furnace if the beams are entering hot-which is known as warm charging-were also studied. Moreover, state of the art energy recovery technologies were analyzed as well as new research developments such as slag heat recovery and cooling bed heat recovery. An important part of the work of this thesis was the determination of the potential of heat recovery by radiation in the cooling bed. Numerical simulations and experimental tests were carried out with this aim. The experimental tests were performed using solar absorbers. The results demonstrated that up to 1...



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