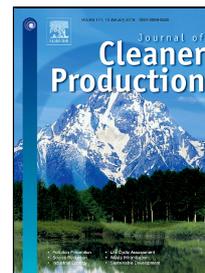


Accepted Manuscript

Renewable energy utilization method: a novel Insulated Gate Bipolar Transistor switching losses prediction model



Ling-Ling Li, Cong-Min Lv, Ming-Lang Tseng, Malin Song

PII: S0959-6526(17)32981-5
DOI: 10.1016/j.jclepro.2017.12.051
Reference: JCLP 11446
To appear in: *Journal of Cleaner Production*
Received Date: 11 June 2017
Revised Date: 03 December 2017
Accepted Date: 06 December 2017

Please cite this article as: Ling-Ling Li, Cong-Min Lv, Ming-Lang Tseng, Malin Song, Renewable energy utilization method: a novel Insulated Gate Bipolar Transistor switching losses prediction model, *Journal of Cleaner Production* (2017), doi: 10.1016/j.jclepro.2017.12.051

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Renewable energy utilization method: a novel Insulated Gate Bipolar Transistor switching losses prediction model

Highlights:

1. A novel switching losses prediction model based on the support vector machine optimized by the improved chicken swarm optimization algorithm was established.
2. This novel model is modified on the basis of the chicken swarm optimization algorithm.
3. The dynamic inertia weight and the part of learning from optimal individuals were introduced to the location updating formula of chicks, so that the chicks could forage flexibly and jump from the local optimal solutions.
4. The novel model contributes to the accurate prediction of the switching losses. It also has an important guiding significance for the improvement of renewable energy utilization and the system reliability.

Download English Version:

<https://daneshyari.com/en/article/8099309>

Download Persian Version:

<https://daneshyari.com/article/8099309>

[Daneshyari.com](https://daneshyari.com)