

Co-simulations of induction machines coupled with a radial ball bearing for mechanical defects analysis
El Bouharrouiti, Nada; Sitnikov, Maksim; Hemeida, Ahmed; Martin, Florian; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar IET Electric Power Applications 2025 / 13 p. : ill <http://dx.doi.org/10.1049/elp2.12529>

Determination of core losses using an inverse modeling technique
Osemwinyen, Osaruyi; Hemeida, Ahmed; Ghahfarokhi, Payam Shams; Belahcen, Anouar IEEE Access 2022 / p. 29224-29232
<https://doi.org/10.1109/ACCESS.2022.3158365> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Generation of unmeasured loading levels data for condition monitoring of induction machine using machine learning
Billah, Md Masum; Saberi, Alireza Nemat; Hemeida, Ahmed; Martin, Florian; Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman; Mukherjee, Victor; Belahcen, Anouar IEEE transactions on magnetics 2024 / art. 8201104
<https://doi.org/10.1109/TMAG.2023.3312267> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Magnetic equivalent circuit and Lagrange interpolation function modeling of induction machines under broken bar faults
Hemeida, Ahmed; Billah, Md Masum; Kudelina, Karolina; Asad, Bilal; Naseer, Muhammad Usman; Guo, Baocheng; Martin, Florian; Rasilo, Paavo; Belahcen, Anouar IEEE transactions on magnetics 2024 / art. 8200704, 4 p
<https://doi.org/10.1109/TMAG.2023.3306207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A Simple and efficient quasi-3D magnetic equivalent circuit for surface axial flux permanent magnet synchronous machines
Hemeida, Ahmed; Lehtikoinen, Antti; Rasilo, Paavo; Vansompel, Hendrik; Belahcen, Anouar IEEE transactions on industrial electronics 2019 / p. 8318-8333 : ill <https://doi.org/10.1109/TIE.2018.2884212>

Synthetic Data-Driven Detection of Broken Rotor Bars in Induction Machines Under Adjusted Noise Level
Nuha, Nurjahan Amin; Siddik Injam, Md Tanbir; El Bouharrouiti, Nada; Hemeida, Ahmed; Kudelina, Karolina; Naseer, Muhammad Usman; Belahcen, Anouar 2025 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) 2025 / 6 p
<https://doi.org/10.1109/WEMDCD61816.2025.11014141>