

### **Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets**

**Belahcen, Anouar**; Singh, Deepak; Rasilo, Paavo; Martin, Florian; Ghalemestani, Setareh Gorji; Vandeveld, Lieven IEEE transactions on magnetics 2015 / p. 200-204 : ill <http://dx.doi.org/10.1109/TMAG.2014.2361681>

### **Contribution of Maxwell stress in air on the deformations of induction machines**

Fonteyn, Katarzyna Anna; **Belahcen, Anouar**; Rasilo, Paavo; Kouhia, Reijo; Arkkio, Antero Journal of electrical engineering and technology 2012 / p. 336-341 : ill <https://ieeexplore.ieee.org/document/5664487>

### **Coupled magneto-mechanical analysis of iron sheets under biaxial stress**

Aydin, U.; Rasilo, Paavo; Singh, Deepak; Lehikoinen, Antti; **Belahcen, Anouar**; Arkkio, Antero IEEE transactions on magnetics 2016 / art. 2000804, [4] p. : ill <https://doi.org/10.1109/TMAG.2015.2496207>

### **Coupled wave-equation and eddy-current model for modelling and measuring propagating stress-waves**

Peussa, Tommi; **Belahcen, Anouar** Archives of electrical engineering 2015 / p. 215-226 : ill <http://dx.doi.org/10.1515/ae-2015-0018>

### **Effect of Magnetic Forces and Magnetostriction on the Stator Vibrations of a Bearingless Synchronous Reluctance Motor**

Mukherjee, Victor; Rasilo, Paavo; Martin, Florian; **Belahcen, Anouar** IEEE transactions on magnetics 2019 / 4 p. : ill <https://doi.org/10.1109/TMAG.2019.2894739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Effect of mechanical stress on magnetization and magnetostriction strain behavior of non-oriented Si-Fe steels at different directions and under pseudo-DC conditions**

Lahyaoui, Otmane; Lanfranchi, Vincent; Buiron, Nicolas; Martin, Florian; Aydin, Ugur; **Belahcen, Anouar** International journal of applied electromagnetics and mechanics 2019 / p. 299-312 <https://doi.org/10.3233/JAE-180106>

### **Flexible identification procedure for thermodynamic constitutive models for magnetostrictive materials**

Rasilo, Paavo; Singh, Deepak; Jeronen, Juha; Aydin, Ugur; Martin, Florian; **Belahcen, Anouar**; Daniel, Laurent; Kouhia, Reijo Proceedings of the Royal Society. A, Mathematical, physical & engineering sciences 2019 / 21 p <https://doi.org/10.1098/rspa.2018.0280>

### **Influence of magnetic forces and magnetostriction on the vibration behavior of an induction motor**

Sathyan, Sabin; Aydin, Ugur; Lehikoinen, Antti; **Belahcen, Anouar**; Vaimann, Toomas; Kataja, Juhani International journal of applied electromagnetics and mechanics 2019 / p. 825-834 <https://doi.org/10.3233/JAE-171045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Magneto-mechanical modeling of electrical steel sheets**

Aydin, Ugur; Rasilo, Paavo; Martin, Florian; Singh, Deepak; Daniel, Laurent; **Belahcen, Anouar**; Rekik, Mahmoud; Hubert, Olivier; Kouhia, Reijo; Arkkio, Antero Journal of magnetism and magnetic materials 2017 / p. 82-90 : ill <https://doi.org/10.1016/j.jmmm.2017.05.008>

### **Model for stress-dependent hysteresis in electrical steel sheets including orthotropic anisotropy**

Rasilo, Paavo; Steentjes, S.; **Belahcen, Anouar**; Kouhia, Reijo; Hameyer, Kay IEEE transactions on magnetics 2017 / art. 2001004, 4 p. : ill <http://dx.doi.org/10.1109/TMAG.2017.2659784>

### **Modeling of hysteresis losses in ferromagnetic laminations under mechanical stress**

Rasilo, Paavo; Singh, Deepak; Aydin, U.; Martin, Florian; Kouhia, Reijo; **Belahcen, Anouar**; Arkkio, Antero IEEE transactions on magnetics 2016 / art. 7300204, [4] p. : ill <http://dx.doi.org/10.1109/TMAG.2015.2468599>