

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

**Belahcen, Anouar**; Singh, Deepak; Rasilo, Paavo; Martin, Floran; Ghalamestani, Setareh Gorji; Vandevelde, 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**

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

Aydin, U.; Rasilo, Paavo; Singh, Deepak; Lehtinen, 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/aee-2015-0018>

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

Mukherjee, Victor; Rasilo, Paavo; Martin, Floran; **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, Floran; 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, Floran; **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**

Sathyam, Sabin; Aydin, Ugur; Lehtinen, 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**

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

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

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