

### **An improved high-voltage IGBT-based half-bridge DC/DC converter for railway applications**

**Vinnikov, Dmitri; Laugis, Juhani** COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2011 / p. 280-299 : ill <https://www.emerald.com/insight/content/doi/10.1108/0332164111091566/full/html>

### **Analytical model for magnetic anisotropy of non-oriented steel sheets**

Martin, Floran; Singh, Deepak; **Belahcen, Anouar**; Rasilo, Paavo; Haavisto, Ari; Arkkio, Antero COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 1475-1488 : ill <http://dx.doi.org/10.1108/COMPEL-02-2015-0076>

### **Combined FE and particle swarm algorithm for optimization of high speed PM synchronous machine**

**Belahcen, Anouar**; Martin, Floran; El Hadi Zaim, Mohammed; Dlala, Emad; Kolondzovski, Zlatko COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 475-484 : ill <http://dx.doi.org/10.1108/COMPEL-07-2014-0168>

### **Estimation of additional losses due to random contacts at the edges of stator of an electrical machine**

Shah, Sahas Bikram; Rasilo, Paavo; **Belahcen, Anouar**; Arkkio, Antero COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 1501-1510 : ill <http://dx.doi.org/10.1108/COMPEL-02-2015-0083>

### **Impact of component losses on the voltage boost properties and efficiency of the QZS-converter family**

**Roasto, Indrek; Vinnikov, Dmitri** COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2012 / p. 1945-1963 : ill

### **Implementation possibilities of hybrid IGBT-IGCT switches in three-level NPC inverters**

**Blinov, Andrei; Vinnikov, Dmitri**; Ivakhno, Volodymyr; Zamaruev, Vladimir COMPEL : the international journal for computation and mathematics in electrical and electronic engineering 2012 / p. 1917-1930 : ill

### **Modelling anisotropy in non-oriented electrical steel sheet using vector Jiles-Atherton model**

Upadhyaya, Brijesh; Martin, Floran; Rasilo, Paavo; Handgruber, Paul; **Belahcen, Anouar**; Arkkio, Antero COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2017 / p. 764-773 : ill <http://dx.doi.org/10.1108/COMPEL-09-2016-0399>

### **Modelling of magnetic and electric circuits**

Demenko, Andrzej; **Belahcen, Anouar**; Hameyer, Kay; Pietrowski, Wojciech; Brock, Stefan COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2017 / p. 578-579 <http://dx.doi.org/10.1108/COMPEL-02-2017-0054>

### **Uncertainty propagation of iron loss from characterization measurements to computation of electrical machines**

**Belahcen, Anouar**; Rasilo, Paavo; Nguyen, Thu-Trang; Clénet, Stephane COMPEL : The international journal for computation and mathematics in electrical and electronic engineering 2015 / p. 624-636 : ill <http://dx.doi.org/10.1108/COMPEL-10-2014-0271>