

Editorial

We bring the first issue of the tenth volume of the **Transactions on Machine Design** with the below described research.

In the first paper on “**Modelling of two-dimensional magnetic fields and the induction motors**”, the authors addressed the modelling of two-dimensional magnetic fields and analyse the three phase induction motors. They found that the magnetic field solution needs to be accurate for efficiency. Also, they have used the set of programs for the generation of finite elements

In the next paper on “**The study of the variations of the metal-oxide surges**”, the authors studied the variations of the metal-oxide surges during many environments. They have studied the model of the influence of the lightning strokes that occur during the electric distribution lines.

In the last paper on “**Measuring free space of the atmospheric turbulences of the optic communication systems**”, the authors have measured the criteria used for the free space optics communication system during atmospheric turbulences. They have observed the channel capacity used for carrying out the performance analysis over various FSO transmission scenarios. Besides, they have studied the mean power of the scatter components of the fading coupled with the line off-sight component.

We hope that these papers may generate further research interest in the machine modelling.

Editors

