

## CONTENTS

<i>Foreword</i> .....	VII
<i>Contactless Power Transfer – Theoretical Principles and Fields of Applications</i> – Andrei Marinescu, Mihai Iordache, Lucian Mandache .....	1
<i>Inductive Power Charging for Electric Vehicles in Misalignment Conditions</i> – Constantin M. Apostoiaia, Mihai Cernat .....	8
<i>Design of Wireless Electromagnetic Energy Transfer Systems</i> – Mihai Iordache, Victor Bucată, Dragoș Niculae, Marilena Stănculescu, Maria-Lavinia Bobaru .....	15
<i>An Analysis on Efficiency of Wireless Transfer Energy Due to a Misalignment of Two Coils</i> – Dragoș Niculae, Marilena Stănculescu, Mihai Iordache, Maria-Lavinia Bobaru .....	21
<i>Wireless Power Transfer Analysis Using Scattering Parameters</i> – Marilena Stănculescu, Lavinia Bobaru, Mihai Iordache, Dragoș Niculae, Victor Bucată .....	26
<i>Easy Design Procedure of PCB Inductors Using WEBENCH Coil Designer</i> – Catalin Bibirica, Sandu Cristian, Lucian Ene, Mihai Iordache .....	32
<i>Modeling, Simulation and Practical Realization of the Spiral Inductors Used in Wireless Power Systems</i> – Claudia Păcurar, Adina Răcășan, Vasile Țopa, Călin Munteanu, Claudia Constantinescu .....	38