

Selected papers presented  
at the 12th Symposium of Magnetic Measurements and  
Modeling SMMM'2016

Częstochowa–Siewierz, Poland, October 17–19, 2016

*Dedicated to the Memory of Professor Kazimierz Zakrzewski*



*Editors of the Proceedings:*

Jan Szczygłowski and Mariusz Najgebauer

WARSAW

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POLISH ACADEMY OF SCIENCES  
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**The Symposium was organized by:**

Polish Society of Theoretical and Applied Electrical Engineering, Częstochowa Branch  
in cooperation of:  
Faculty of Electrical Engineering, Częstochowa University of Technology  
Tele & Radio Research Institute, Warsaw  
Ariel University, Israel  
Institute of Materials Science, University of Silesia in Katowice  
Stalprodukt S.A., Bochnia  
Electrotechnical Institute, Warsaw  
under the auspices of  
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## Preface

The proceedings volume contains the selected papers presented at the 12th Symposium of Magnetic Measurements and Modeling “SMMM’2016”, which was held in Siewierz (Poland) from October 17 to 19, 2016. The symposium was organized by Częstochowa Branch of Polish Society of Theoretical and Applied Electrical Engineering (PTETiS) in cooperation of Faculty of Electrical Engineering, Częstochowa University of Technology, Tele & Radio Research Institute, Warsaw, Ariel University, Israel, Institute of Materials Science, University of Silesia in Katowice, Stalprodukt S.A., Bochnia and Electrotechnical Institute, Warsaw.

The Symposium has emerged as a continuation of Symposia of Magnetic Measurements held previously. The scope of the Symposium has been widened with modeling of properties and applications of magnetic materials and covered the following subjects: magnetic measurements and techniques, indirect measurements of physical properties of magnetic properties, structures and properties of magnetic materials, magnetic sensors, magnetic circuits in electrical machines, nondestructive testing of materials, modeling as well as design of mechatronic systems and computer-aided visualization of electromagnetic fields.

Over 60 people from academic centers, research institutes and industry took part in the Symposium, including delegates from National University of Columbia (Columbia), Cardiff University (United Kingdom), Ariel University (Israel), Czech Academy of Sciences, Institute of Physics (Czech Republic) and Magnet-Physik Dr. Steingroever GmbH (Germany). 2 plenary and 11 thematic sessions were organized during the Symposium, including four invited talks.



*Participants of Symposium of Magnetic Measurements and Modeling SMMM’2016*

The organizing committee would like to express its gratitude to all participants for high-level presentation of their research, dealing with scientific and engineering aspects of measurement and modeling of soft magnetic material properties.

It should be recalled that the Symposium was organized within the framework of 55th anniversary of Polish Society of Theoretical and Applied Electrical Engineering, 15th anniversary of Częstochowa Branch of PTETiS and 50th anniversary of Faculty of Electrical Engineering, Częstochowa University of Technology.

Jan Szczygłowski  
and Mariusz Najgebauer