

Proceedings of the Winter Workshop  
on Spectroscopy and Structure of Rare Earth Systems  
Karpacz, Poland, March 25–28, 1993

*Editors of the Proceedings*

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WARSAW

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POLISH ACADEMY OF SCIENCES  
INSTITUTE OF PHYSICS

The Winter Workshop on Spectroscopy and Structure of Rare Earth Systems "Karpacz 1993" was organized by the Institute for Low Temperature and Structure Research of the Polish Academy of Sciences and by the Institute of Chemistry of the University of Wrocław.

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## Preface

The Winter Workshop on Spectroscopy and Structure of Rare Earth Systems was held in Karpacz, Poland, March 25–28, 1993. The Winter Workshop was organized and sponsored by the Institute for Low Temperature and Structure Research of the Polish Academy of Sciences and the Institute of Chemistry of Wrocław University.

The purpose of the Winter Workshop was to bring together outstanding specialists and young scientists working in the field of spectroscopy of rare earth ions, which find broad applications in optoelectronics, quantum electronics and luminophores.

These proceedings collect invited and contributed papers presented at the Winter Workshop. The Winter Workshop was attended by 50 scientists from Finland, France, Germany, Russia, United Kingdom and Poland.

Numerous people contributed to the success of the Winter Workshop. In particular, we would like to thank our colleagues from Organizing Committee for their effort. Special thanks are due to G. Dominiak-Dzik, S. Gołąb, J. Legendziewicz, G. Oczko and W. Ryba-Romanowski.

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