

## Preface

The 26<sup>th</sup> Regional Conference on Solid State Science and Technology 2011 (RCSSST2011) was jointly organized by the School of Applied Physics, Universiti Kebangsaan Malaysia (The National University of Malaysia) in cooperation with the Malaysian Solid State Science and Technology Society (MASS). RCSSST2011 covered recent advancements and trends in the area of solid state science and technology to facilitate knowledge sharing and networking among researchers on emerging trends and new challenges in this field. RCSSST2011 also provided a platform for discussion of all aspects of physical and chemical properties, preparation and characterization techniques, optical properties; macro-, micro- and nano-structures, modeling, simulation and measurement methods as well as current developments in the field.

More than 170 papers were presented by participants from the universities and research institutions during the conference and this book includes 69 selected papers. The major topics covered in this book are: (i) biomaterials, polymer and composite (ii) ceramic, dielectric, glass and optical material, (iii) metal and alloy, (iv) nanoscience and nanotechnology, (v) semiconductor, thin film and device, (vi) superconductor and magnetic material and (vii) theory, simulation, modeling and related area.

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