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Rafael Kh. Drampyan
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Introduction

This volume presents selected papers of the International Scientific Workshop, Photonics and Micro- and Nano- Structured Materials (PMNM–2011.)

The workshop was devoted to the recent advances in micro- and nano-structured materials, which are the rapidly developing areas of research with applications in photonics, optics, and optoelectronics. The workshop topics covered all the aspects from fundamentals of the relevant physical processes to practical implementations. The topics covered by PMNM-2011 included the engineering of micro- and nano-structured materials and the experimental and theoretical aspects of photonics and electronics of the structured materials.

Sessions of the PMNM-2011 were attended by over 70 participants. Forty-four oral reports were presented, 19 of them by foreign participants (Belgium, Canada, France, Hungary, Italy, Russian Federation, United Kingdom, United States.) This volume contains 37 selected papers.

For the convenience of readers, all papers in these proceedings are arranged into five sections:

Section 1: Engineering of micro- and nano-structured materials

Section 2: Photonics and electronics of structured materials

Section 3: Holography and photorefractivity

Section 4: Optical storage

Section 5: Optical beam engineering for photonics.

On behalf of the Organizing and Program Committees I express gratitude to all the institutions and persons who contributed to the organizing, supporting, and holding of the workshop.

Rafael Kh. Drampyan

