

**EDITORIAL OF THE SPECIAL ISSUE**  
***RECENT ADVANCES IN CONSTITUTIVE MODELING***  
***OF METALLIC MATERIALS***  
**Special issue in honor of Professor Cristian Teodosiu**

Oana CAZACU, Tudor BALAN

This special issue of the *Romanian Journal of Technical Sciences – Applied Mechanics* is devoted to the constitutive modeling of metallic materials, which has developed as a specific research field within the wider area of solid mechanics and mechanics of materials. All of the contributors collectively dedicate this volume to the honor of Professor Cristian Teodosiu, in recognition of his outstanding contributions to this research field.

Faithful to the scientifically encyclopedic approach of Professor Teodosiu, the volume includes contributions with theoretical, experimental as well as numerical character, from the scale of crystalline grains to that of metal forming applications.

Obviously, a complete state-of-the-art of such a wide and dynamic research field cannot be contained in a unique volume. However, the eight papers along with the more than 250 references cited therein provide a fair snapshot of the recent achievements and approaches in constitutive modeling of metallic materials. From Portugal to Japan to the USA, via France and Romania, the authors' affiliations of this special issue remind and gratefully acknowledge the influential worldwide footprints left by Professor Teodosiu in this field of research, in which he selflessly trained and mentored generations of scientists all over the world throughout his career.

Finally, we would like to thank the *Romanian Journal of Technical Sciences – Applied Mechanics* for providing the opportunity for this special issue on constitutive modeling of metallic materials, in honor of Professor Cristian Teodosiu.

The guest editors,  
*Oana Cazacu*, University of Florida, Shalimar, USA  
*Tudor Balan*, Arts et Métiers ParisTech, Metz, France