

## Preface

In this book are published the papers of the XIII International Conference on the Mechanical and Physical Behaviour of Materials under Dynamic Loading – DYMAT2021 held in Madrid (Spain) September 19–24, 2021.

In continuity with previous DYMAT international conferences [Paris (1985), Ajaccio (1988), Strasbourg (1991), Oxford (1994), Toledo (1997), Krakow (2000), Porto (2003), Dijon (2006), Bruxelles (2009), Freiburg (2012), Lugano (2015) and Arcachon (2018)], this book contains 119 scientific papers from 22 countries and 5 continents that collectively provide an excellent snapshot of the state-of-the-arts in the field of the mechanical properties of materials at high rates of strain and highlights some remarkable modern developments and industrial applications. This volume covers six topics such as Modelling and Numerical simulation (34 papers), Experimental Techniques (36 papers), Microstructural Effects (14 papers), Metallic Materials (17 papers), Non-metallic Materials (15 papers), and Industrial Application (3 papers).

The conference was organized by the Department of Materials Science of the Universidad Politécnica de Madrid.

I would like to express my sincere gratitude to all authors, who once again have massively answered our call for papers, even in this difficult pandemic situation. In addition, we would like to express our thanks to the International Advisory Committee and the members of the Governing Board of the DYMAT Association. Their remarkable and continuous support in the reviewing and organization processes of DYMAT2021 has been extremely helpful in setting up the scientific program of the conference.

**Francisco Galvez**  
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