Special Issue

Mechanical Properties of Thin Coatings, Composites and Nano Materials

Message from the Guest Editors

The depth-sensing indentation (DSI) test is widely used technique for determine the mechanical properties of thin coatings and composites materials. This Special Issue will focus on the methods and procedures that can be used in experimental and numerical DSI tests and contribute to the evaluating of the mechanical properties of thin films and composite materials, paying special attention to the nanocomposites, i.e., those reinforced by nanoparticles, nanotubes, or nanofibers. Furthermore, the aim of this Special Issue is to gather recent achievements towards experimental characterization and modelling of the mechanical behaviour of nanocomposites, including but not limiting ones reinforced by carbon nanotubes. The contributions to the modelling and numerical simulation of the mechanical behaviour of carbon and non-carbon nanotubes and nanofibers, which are helpful for the design methodologies to produce nanocomposites, are also welcome.

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