

Special Issue

Shock and Blast Waves: Propagation, Reflection and Interaction in Memory of Prof. Vladimir N. Uskov

Message from the Guest Editor

The content of this Special Issue is, in many ways, a continuation of the research conducted by Vladimir Uskov (1941–2014), Professor of Baltic State Technical University “VOENMEH” and St. Petersburg State University. He was an outstanding scientist in the field of supersonic jet flows and interactions of gas-dynamic discontinuities. Since 1966, V.N. Uskov and his colleagues have carried out experimental research into supersonic jet flows and their shock wave structure, especially at interactions with obstacles. Studies of the shock wave noise of supersonic gas jets and other aero-acoustic effects were continued in the 1980s and 1990s. Prof. V.N. Uskov, together with his colleagues, developed a method of applying supersonic jets’ oscillation modes and other shock-wave effects to powder metallurgy problems. Since 1975, he has been the author of 40 inventions. Prof. Uskov was an excellent teacher and dearest friend to many researchers, and we hope that this Special Issue will act as a fitting way to honor such a prominent scientist.

Guest Editor

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