

MATERIALS IN CONDITIONS OF HIGH POWER PLASMA LOADS: SURFACE DAMAGE AND MODIFICATION

Contact Phone

Abstract

The paper discusses main features of material response to the repetitive powerful plasma impacts caused either the damage mechanisms and erosion behaviour or modification of surface layer and alloying with plasma species, aimed at improvement of material performance. Influence of powerful plasma impacts on several materials used for the construction of energy systems, i.e. steels as well as tungsten coatings, and pure tungsten has been discussed.

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