

Theory of surface deposition from boundary layers containing condensable vapor and particles

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Abstract. Hot gas containing condensible vapor and small particles “blows” against a “cold” wall. The model computes the rate at which liquefied vapor accumulates on the wall due to direct condensation plus a “rain” of liquid-covered particles. The latter results from heterogeneous nucleation in undercooled vapor near the wall [4]. This situation is different from standard homogeneous analyses [1, 2, 3].

References

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