

Environmental Challenges and Opportunities in Nano-Manufacturing

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Abstract

Manufacturing in nano-scale is not a simple extrapolation of the current and conventional manufacturing practices. The shift to nano scale creates both major issues as well as significant opportunities in performance, cost, and environmental impact for electronics industry. This presentation focuses on both the positive and the negative environmental impacts of this inevitable paradigm change. The examples and the particular emphasis will be on the applications of this shift to nano-scale in the state-of-the-art semiconductor manufacturing and related processes.