

From the clean room to the pocket

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In modern society, it is nominally impossible not to encounter the presence of nanoelectronics. The progress of semiconductor industry seems to be tied upon the empirical law know as Moore's law, which states that the number of transistor in a microprocessor is doubled every two years. Behind this law, which remains true 50 years after its statement, an enormous intellectual effort is devoted to drive the validity of Moore's law.

From research, new materials and techniques are investigated, and the semiconductor industry integrate these new processes into their clean room to achieve faster and smaller microchips. Photolithography is one of the driving forces behind the success of this industry.

In this talk, a brief description of the semiconductor industry will be given, with special emphasis on photolithography.

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