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The modification of metal surfaces by ion beams can be accomplished by a variety of methods, each with its own advantages for particular situations. The principal methods include 1) direct ion implantation, 2) ion beam mixing, 3) ion beam assisted deposition and 4) plasma ion implantation and are shown

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Ions may be allowed to travel through a beam line at the energy at which they were extracted from a source material, or they can be accelerated or decelerated by dc or radio-frequency (RF) electric fields. Semiconductor processors today use ion implantation for almost all doping in silicon ICs.

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