

Solid State Electronic Devices 7th Edition Streetman Solutions Manual

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Chapter 5 Solutions

Find the time that it takes to grow the first 200nm, the next 300nm, and the final 400nm. Draw and calculate step heights after reoxidation.

Time for first 200nm = 0.13 hours from Appendix VI at 1000°C

Time for next 300nm = 0.6 hours for 500nm – 0.13 hours for 200nm = 0.47 hours

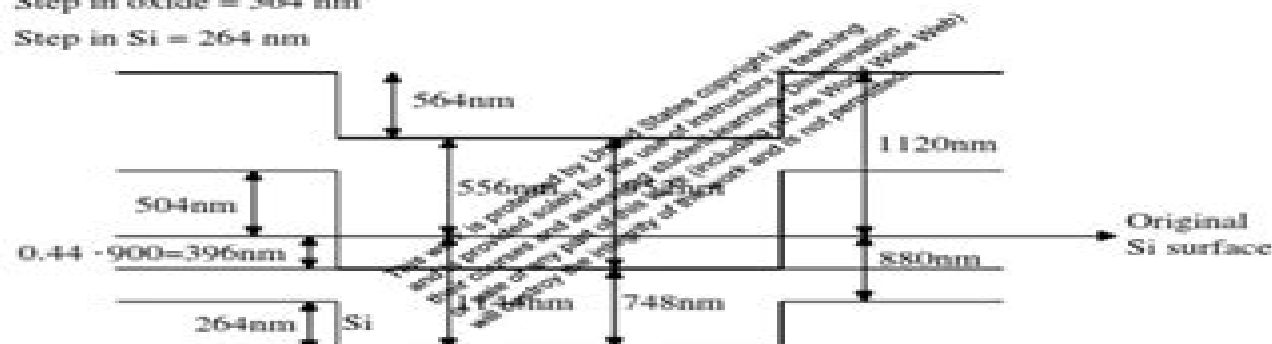
Time for final 400nm = 1.8 hours for 900nm – 0.6 hours for 500 nm = 1.2 hours

Oxidation Time After Etch = 6.0 hours for 2000nm – 1.4 hours for 900nm at 1100°C
= 4.6 hours

Oxide Growth Inside Window = 1700nm

Step in oxide = 564 nm

Step in Si = 264 nm



Solid State Electronic Devices Streetman Solutions Manual

RC Schank



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