



<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Resources</u> <u>Search</u> <u>Course team</u>



	The increase of pressure in the etching gas causes a decrease of pressure in the polymerization gas and therefore polymerization gas accumulates in the bottom
<u></u>	The mean free path in the gas is low, which can give rise to reduced gas access and removal of reaction products from the bottom of the structure
e polyt red tra of Serv	echnique fédérale de Lausanne. All rights reserved except where noted. edX, Open edX and their respective logos are The overpressured etching gas turns into deposition mode and it starts stacking on the botton OPEN ed demarks of edX inc. the structures rice & Honor Code Privacy Policy
0	The etching gas is overexcited, which causes the amount of atoms per volume to decrease gradually
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Vhen educ vill be	nation the etching gas pressure is too high, the mean free path in the gas is low, which can give rise to ed gas access and removal of reaction products from the bottom of the structures. Therefore, there e less vertical side walls towards the bottom of the etched structures. See "Examples of etching sses for Si-based materials" video from 11:25 to 12:05 for more detailed explanations.
. Wh	ich of the following is true for a cryogenic deep dry Si etching process?
0	The chuck temperature does not have a significant influence on the etching profile
0	The etching rate and the selectivity are low
O	Addition of too much oxygen can cause grass generation
0	The loading effect is eliminated for this process
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n cryo Ised 1 See "E	nation ogenic deep dry Si etching process, first the silicon wafer is brought to -110 °C. Hereafter, SF ₆ gas is for etching and O ₂ gas is used for passivation. Both of these operations are performed simultaneously. Examples of etching processes for Si-based materials" video from 17:35 to 18:45 for more detailed nations.
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