

Help 😝 ~

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



| Ш | The inspection and metrology should be minimized because they are time consuming and costly. |
|--------------------------------------|---|
| ✓ | The inspection and metrology are conducted in order to evaluate the processes' performance and to make sure that they are properly conducted. |
| polyt | © All Rights The inspection and metrology can only be done at the end of the process flow to check the MEMS' performance. echnique fédérale de Lausanne. All rights reserved except where noted. edX, Open edX and their respective logos are OPEN OPEN |
| _ | i <mark>sordelins pect</mark> io <mark>rivand miet</mark> rology methods are invasive, therefore possible effects on the device under study must be taken into consideration. |
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| ndee arly a ould | nation d, the inspection and metrology are time consuming and costly, but if we can find potential issues as as possible during the fabrication process, instead of only at the end of the entire process flow, we stop and solve the issue immediately to save unnecessary waste of time and cost for the following sses. |
| . Wh | at can we do to avoid or minimize the measurement error? |
| ✓ | Periodic calibration of the metrology tool |
| <u>~</u> | Statistical analysis of the measurement results |
| ✓ | Assure that the sample is in proper condition for the specific measurement |
| ✓ | Comparison of the results obtained from different measurement approaches |
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| he period eriod Ising s for | nation erformance of metrology tool could drift over time just like other typical machines. Therefore, dical calibration is required to ensure accurate measurement results. statistical analysis, the outlier or personal error can be ruled out. systematic error, comparing the measurement result obtained from different measurement tools or aches is helpful to find it out and avoid it. |
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