



UiO **Department of Informatics** University of Oslo

Introduction

We have already considered one type of noise in the layout lecture: **Interference**—Other circuits or other parts of the circuit interfering with the signal. E.g. digital switching coupling through to an analog signal through the substrate or capacitive coupling between metal lines. We mitigate this interference with layout techniques.

True noise is random and zero mean!

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Noise and distortion



















































































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