SUBSTRATE TINNING ANALYSIS

Substrate thinning in a BBI context

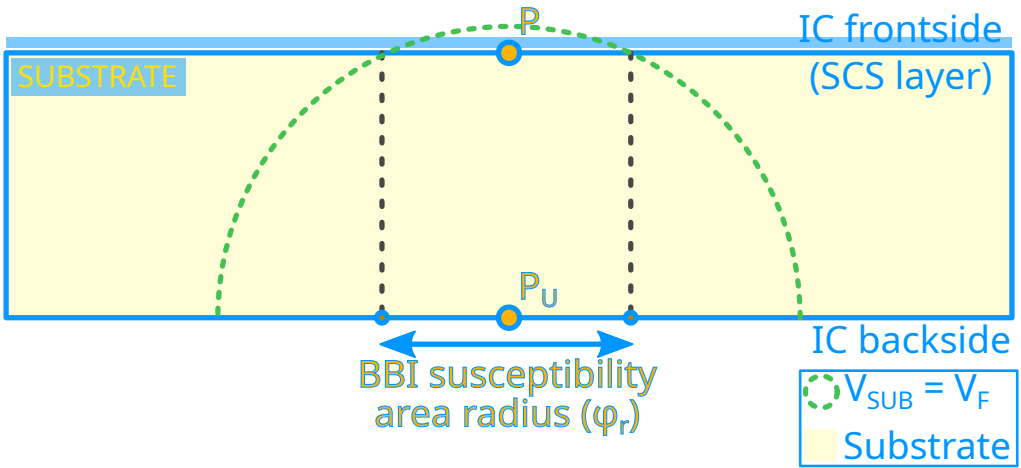
In Laser Fault Injection, substrate thinning has been proven useful
Is it the case concerning BBI?

Section agenda:

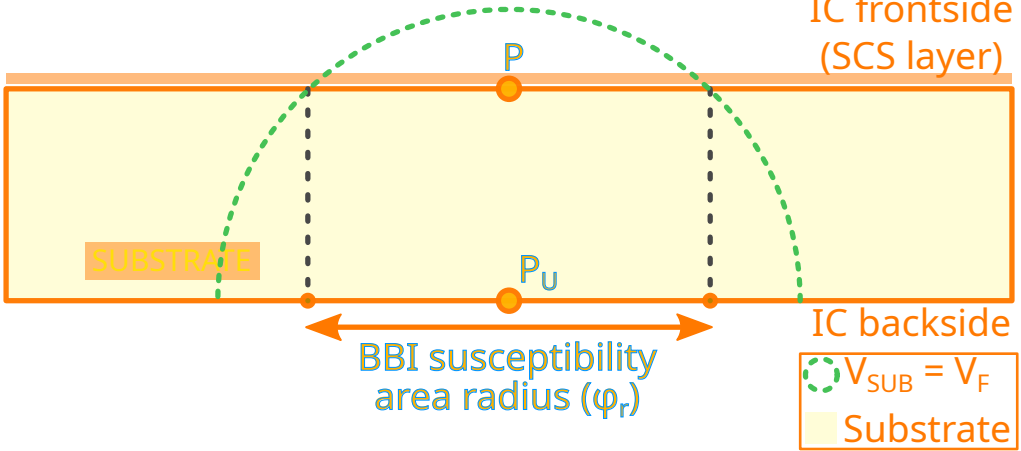
- Geometric approach
- Electrical simulation approach
- Experimental validation

Geometric approach

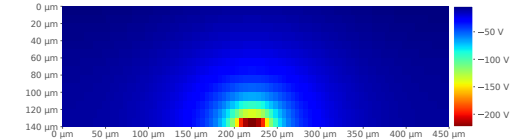
Geometric approach

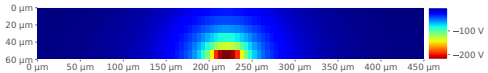


Geometric approach

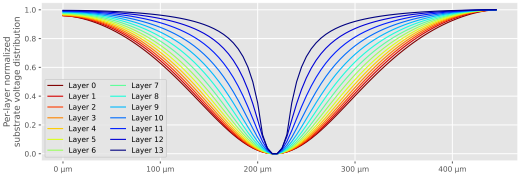


Simulation approach





The higher the layer number, the closer to the probe.
The lower the normalized value, the higher the concentration.



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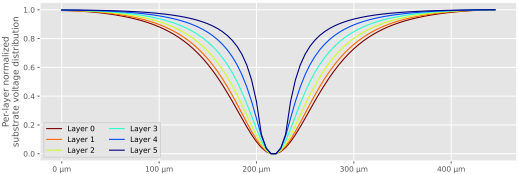
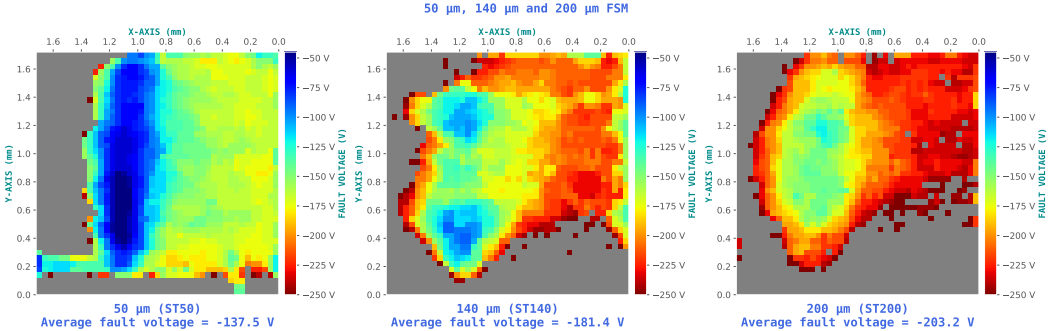


A few words on substrate thinning techniques

AJOUTER IMAGES APPAREILS AMINCISSEMENT ET EXPLICATIONS

Substrate thinning in practice

Fault susceptibility maps



Substrate thinning in practice

Susceptibility area spreading