



Séminaire du CETHIL

Lundi 14 mars 2016 à 13h30, salle 230

Recent advances in optical modelling of silicon solar cells:

Keith McIntosh

PV Lighthouse

Résumé du séminaire

The optical simulation of a conventional silicon solar cell poses many challenges to an R&D engineer. How should random pyramids or, more difficultly, isotexture, be represented? What is the internal reflectance and scattering at the aluminium-silicon alloy? What role does polarisation play? How should we define and compare the quality of a solar cell's light trapping? What is the upper limit to light trapping? This seminar describes recent advances in these fields of enquiry and discusses the many advances that can still be made to help improve the decades-old, mass-produced, conventional screen-print solar cell.

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