Technology datasheet

Electronics

Microelectronics & Nanoelectronics

SATT NORD

Technology Transfer Office

keywords

Si and Organic TFTs
Numerical simulation
Education/Research
Advanced physics

TFT numerical software

Our laboratory has developed **eWeWeW**, a scientific software **simulating** thin-film transistors **(TFT) electrical characteristics** in a very fast and user-friendly way. eWeWeW is versatile thanks to its unique user interface allowing a gradual approach to the device physics.

Specially designed for the broadly used **silicon** and **organic TFTs**, eWeWeW delivers all its outputs **within a minute**, using **state-of-the-art** and **well established physics**. It includes numerous models to describe various materials and technologies, such as : density of states, defects, transport, injection, temperature dependence, and more.

Demo : http://model-ofet.univ-reims.fr/

contact

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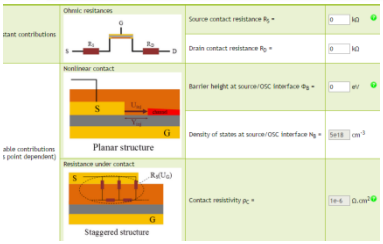
benefits

- **Fast** and reliable **numerical** simulation of TFTs
- Fits expectations **from beginners to experts**
  - Beginners can figure out the **basics** of TFT physics in a few clicks
  - Experts can investigate **complex physics**
- **30+ plots** and standard-formatted data files
- Runs from anywhere with standard **web** browsers



applications

- eWeWeW is designed for **education and research**.
  - **Education** : from a quick overview of the device to a deep advanced understanding of its behaviour, it can fulfil requirements for any course level. Canvases of various complexity for practical classes are provided. Adapted to **current numeric teaching trends**.
  - **Research** : various **state-of-the-art** models can be compared with experimental data. **Quickly**.

Source of the technology

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LRN nanosciences

development status

TRL 5 : validation in relevant environnent

patent status

APP registration
(French software protection agency)

Université de Reims Champagne-Ardenne

Université de Picardie Jules Verne

Université de Lille

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