Symposium (Oral) | Symposium | Semiconductor Device Simulation: Applications and Future Perspectives

[18p-A202-1~15]Semiconductor Device Simulation: Applications and Future Perspectives

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△：奨励賞エントリー
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1:50 PM - 2:20 PM

[18p-A202-3]The use of semiconductor device simulator for educational purposes to understand current conduction mechanisms

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Keywords:device simulation, education

Device simulator is a useful tool to understand the current conduction mechanisms in semiconductor devices. In this presentation, the use of device simulator for educational purposes will be introduced. For example, the movies simulating the electron conduction mechanisms with Monte Carlo method and also the observation of physical quantities inside the MOSFET using the device simulator could help for students' understanding to learn semiconductor devices.