



Zon is de energiebron van de toekomst

**Solar cells**, the new source of energy for the 21<sup>st</sup> century, which deliver electricity directly from the sunlight. Solar cells are advanced semiconductor devices.



World Solar Car Race 2003  
The winner: TUD Nuna 2

# Solar Cells

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# Solar Cells

Lecture course: code ET4149

4<sup>th</sup> quarter: 10/4/2006 - 29/5 /2006

Thursday 8:45 - 10:30, building ET: room D

Foreknowledge: not required

Solid State Physics

Semiconductor Components

Literature: **Zeman:** Syllabus Solar Cells + sheets

Examination: Wednesday 02/07/2007 9:00 - 12:00

Tuesday 26/08/2007 14:00 - 17:00

**Zeman:** Syllabus +sheets

# Solar Cells

Date: 10/4 Zeman	Date: 17/4 Zeman	Date: 24/4 Zeman	Date: 8/5 Zeman	Date: 15/5 Savenije	Date: 22/4 Weeber	Date:29/5 Zeman
<b>Introduction to PV</b> <b>Solar radiation</b> <b>Solar cell materials</b>	<b>Solar cell physics</b> <i>Principle of solar cell operation</i> <i>Physics of p-n junction</i>	<b>Solar cell physics</b> <i>Characterization of solar cells</i> <b>Solar cell design</b>	<b>Thin-film solar cells</b> <i>Helianthos project</i>	<b>Organic based solar cells</b>	<b>Bulk c-Si solar cells physics</b>	<b>PV systems</b> <i>Design of a PV system</i>