Lecture Incoherent Light Sources

Lecturer: Research scientists: Lab assistants:	Prof. Dr. Thomas Jüstel Heike Kätker (-62538), Dr. David Enseling (-62852) Heike Jenneboer, Elke Ungruhe	
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Accessibility is guaranteed during the lecture times.		

Lecture period	April 01 st , 2020 – July 03 rd , 2020
Wednesdays	1.15 pm – 5.00 pm

Lecture materials: Power point slides, exercises, old written exams, presentations, working sheets

My homepage comprises under the link "Download-Portal" all lecture materials, while a password is not required.

As literature the textbook of Hajime Yamamoto et al. Nitride Phosphors and Solid-State Lighting, 2011, CRC Press is recommended.

Further information will be published by mailings and/or ILIAS.

First lecture: Wednesday, April 01st, 2020, 01.15 pm, solely on-line.

Contents

- Historical introduction
- Radiometric and photometric terms
- Physical concepts of light generation
- Incandescent and halogen lamps
- Low-pressure discharge lamps
- High-pressure discharge lamp
- Luminescent materials
- Mechanisms of luminescence
- Inorganic LEDs
- OLEDs and PLEDs
- Gas discharge displays
- UV Radiation Sources

Presentations: Indivdual talks by the aid of pptx (up to 10 additional points for the exam)

Exam: Oral exam in July and September 2020