

Introducing a CD-ROM on LEDs

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A possible future task of the CIE will be to establish a data-base of tutorial materials that can be used in teaching of illuminating engineering tasks. The CD-ROM introduced in this paper will show one of the methods that could be followed in building up a CIE library of relevant tutorial material.

Light emitting diode's performance is rapidly changing, textbooks describing LED characteristics become outdated by the time they become available. On the other hand the interest on LED performance, measurement and application is big. Therefore we took a rapid communication approach of producing a CD-ROM/Internet edition of our normal university text entitled

LED characteristics, measurement and application

as a self-study manual/distant learning tutorial.

The CD-ROM contains the subject in three major Sections, dealing with a brief introduction to LED physics and technology, measurement techniques, based mainly on CIE recommendations, and an introduction to LED application.

Emphasis in this is on the measurement of LEDs. This part contains the information described in the CIE Publication 127.

The presentation uses multimedia techniques to show students functioning and other features of LEDs often difficult to describe in writing. The CD is part of a multi-part series describing fundamentals of radiometry and photometry as well as colorimetry. It is intended as an example of using modern techniques for easy updating of the single sections, and should be introduced at the CIE Midterm Meeting in 2001 to the Education task force to get further input in establishing a CIE series on light and lighting educational material.

The presentation at the CIE LED measurement Symposium is intended to get feed-back from LED experts on subjects to be covered in further editions and suggestions of better arrangement techniques to be used. We intend to use for a second edition of this CD-ROM material presented at the symposium and especially at its tutorial session. Comments and suggestions for this 2nd edition should be sent to the last author to the address:

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with the remark in the subject line: LED CD-ROM.