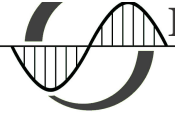




UNIVERSITÀ
degli STUDI
di CATANIA



DIPARTIMENTO DI FISICA E ASTRONOMIA
“ETTORE MAJORANA”

DOTTORATO DI RICERCA IN FISICA
ANNO ACCADEMICO 2020/2021 (CICLO XXXVI)

TITLE

Optical design with Raytracing

2 CFU

Teaching staff

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Reception hours: Mon 12-13

Program of the course:

The course is an introduction to the design of optical systems with the use of raytracing codes

Review of first- and third-order optics

Optimization

Tolerancing

Multiconfiguration

Macros & API

Non-sequential systems / Straylight

Bibliography:

Kingslake - Lens design fundamentals, SPIE Press, 2010

Fischer / Tadic-Galeb - Optical System Design, McGraw Hill, 2000

Geary - Lens Design with practical Examples, Willmann-Bell, 2002

Fest - Stray Light Analysis and Control, SPIE Press, 2013
