

Table of Contents

BASIC CONCEPTS *Alan Rogers*

A1.1	An introduction to optoelectronics <i>Alan Rogers</i>	1
A1.2	Optical materials <i>Neil Ross</i>	21
A1.3	Incandescent, discharge and arc lamp sources <i>David O Wharmby</i>	45
A1.4	Detection of optical radiation <i>Antoni Rogalski and Zbigniew Bielecki</i>	73
A1.5	Propagation along optical fibres and waveguides <i>John Love</i>	119
A1.6	Introduction to lasers and optical amplifiers <i>William S Wong, Chien-Jen Chen and Yan Sun</i>	179

ADVANCED CONCEPTS *Alan Rogers and Galina Khitrova*

A2.1	Advanced optics <i>Alan Rogers</i>	205
A2.2	Basic concepts in photometry, radiometry and colorimetry <i>Yoshi Ohno</i>	287
A2.3	Nonlinear and short pulse effects <i>Günter Steinmeyer</i>	307

OPTOELECTRONIC DEVICES AND TECHNIQUES *John P Dakin, Roel Baets and Michel Digonnet*

B1.1	Visible light-emitting diodes <i>Klaus Streubel</i>	329
B1.2	Semiconductor lasers <i>Jens Buus</i>	385
B2	Optical detectors and receivers <i>Hidehiro Kume</i>	413
B3	Optical fibre devices <i>Suzanne Lacroix and Xavier Daxhelet</i>	457
B4	Optical modulators <i>Nadir Dagli</i>	489
B5	Optical amplifiers <i>Johan Nilsson, Jesper Lægsgaard and Anders Bjarklev</i>	533
B6	Ultrafast optoelectronics <i>Günter Steinmeyer</i>	565
B7	Integrated optics <i>Nikolaus Boos and Christian Lermينياux</i>	587
B8	Infrared devices and techniques <i>Antoni Rogalski and Krzysztof Chrzanowski</i>	653
B9	Organic light emitting devices <i>Martin Grell</i>	693
B10	Microstructured optical fibres <i>Tanya M Monro, Anders Bjarklev and Jesper Lægsgaard</i>	719
B11	Engineered optical materials <i>Peter G R Smith</i>	745
Index		I-1