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## **Experimental results and simulations of advanced optoelectronic devices**

Capitolul 1. Experimental studies of joint transform optical correlators

Capitolul 2. Simulations of different types of optical correlators for specific applications

Capitolul 3. Modelling of the behaviour of an n-diffusion CMOS photodiode

Capitolul 4. Study of defects and failure mechanisms in an n-diffusion CMOS

Capitolul 5. Jitter measurements in mode locked lasers

Capitolul 6. Simulations of dilute-nitride quantum well semiconductor lasers

Capitolul 7. Conclusions