



# High Speed VCSELs for Optical Interconnects (Springer Theses)

*Alex Mutig*

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The transmission speed of data communication systems is forecast to increase exponentially over the next decade. Development of both Si-based high-speed drivers as well as III-V-semiconductor-based high-speed vertical cavity surface emitting lasers (VCSELs) are prerequisites for future ultrahigh data-rate systems. This thesis presents:

- a survey of the present state of the art of VCSELs
- a systematic investigation of the various effects limiting present VCSELs
- a catalogue of solutions to overcome present limits
- detailed progress in modelling, fabricating and testing the currently most advanced VCSELs at the two commercially most important wavelengths.

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