

CONTENT

1. Introduction	7
2. THz Technology	8
2.1. THz sources	8
2.2. THz time domain spectroscopy	9
2.3. THz photomixing	10
3. Diode laser based THz technology	13
3.1. Semiconductor diode lasers	13
3.2. Photomixing with two colour diode lasers	15
3.3. Short pulse diode laser systems	16
3.4. Quasi Time Domain spectroscopy	18
4. Summary, conclusions, and acknowledgements	21
5. References	22