



Yun-Shik Lee

Principles of Terahertz Science and Technology

- Utilizes a 'back-to-basics' approach which reviews the fundamental concepts of THz optical science rather than detailing current THz research
- Written by a single author to ensure an organized, coherent, generalized text, as opposed to other books on THz science which are collections of review articles and specialized research
- Targets new researchers of THz science, so it includes practical contents useful for initiating research

Principles of Terahertz Science and Technology aims to elucidate the fundamentals of THz technology and science for potential new users. It surveys major techniques of generating, detecting, and manipulating THz waves and also discusses a number of essential processes where THz waves interact with physical, chemical, and biological systems. This book serves as an introduction to THz technology for new researchers in various fields. Many different disciplines, such as ultrafast spectroscopy, semiconductor device fabrication, bio-medical imaging and more, involve the recent development of THz technology. It is necessary to lay down a strong, common foundation among researchers, so that communication can proceed smoothly. Previous THz research activities have concentrated on generation and detection, but the focus has now shifted to practical applications of this technology, such as high-speed optoelectronic signal processing and molecular spectroscopy.

2009, XII, 340 p. 298 illus.

Printed book

Hardcover

159,99 € | £139.99 | \$199.99

^[1]171,19 € (D) | 175,99 € (A) | CHF

189,00

Softcover

130,83 € | £99.99 | \$149.99

^[1]139,99 € (D) | 143,91 € (A) | CHF

154,50

eBook

106,99 € | £79.50 | \$109.00

^[2]106,99 € (D) | 106,99 € (A) | CHF

123,50

Available from your library or

springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

