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Autore	Wojtas Jacek
Titolo	Photonic Technology for Precision Metrology
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (126 p.)
Soggetti	History of engineering & technology Technology: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Photonics has had a decisive influence on recent scientific and technological achievements. It includes aspects of photon generation and photon-matter interaction. Although it finds many applications in the whole optical range of the wavelengths, most solutions operate in the visible and infrared range. Since the invention of the laser, a source of highly coherent optical radiation, optical measurements have become the perfect tool for highly precise and accurate measurements. Such measurements have the additional advantages of requiring no contact and a fast rate suitable for in-process metrology. However, their extreme precision is ultimately limited by, e.g., the noise of both lasers and photodetectors. The Special Issue of the Applied Science is devoted to the cutting-edge uses of optical sources, detectors, and optoelectronics systems in numerous fields of science and technology (e.g., industry, environment, healthcare, telecommunication, security, and space). The aim is to provide detail on state-of-the-art photonic technology for precision metrology and identify future developmental directions. This issue focuses on metrology principles and measurement instrumentation in optical technology to solve challenging engineering problems.</p>

2. Record Nr.	UNINA9910346674803321
Autore	Hay Phillipa
Titolo	Eating Disorders and Obesity : : The Challenge for Our Times / / Phillipa Hay, Deborah Mitchison
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2019 Basel, Switzerland : , : MDPI, , 2019
ISBN	9783038979999 3038979996
Descrizione fisica	1 electronic resource (274 p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Eating Disorders have traditionally been considered apart from public health concerns about increasing obesity. It is evident that these problems are, however, related in important ways. Comorbid obesity and eating disorder is increasing at a faster rate than either obesity or eating disorders alone and one in five people with obesity also presents with an Eating Disorder, commonly but not limited to Binge Eating Disorder. New disorders have emerged such as normal weight or Atypical Anorexia Nervosa. However research and practice too often occurs in parallel with a failure to understand the weight disorder spectrum and consequences of co-morbidity that then contributes to poorer outcomes for people living with a larger size and an Eating Disorder. Urgently needed are trials that will inform more effective assessment, treatment and care where body size and eating disorder symptoms are both key to the research question.