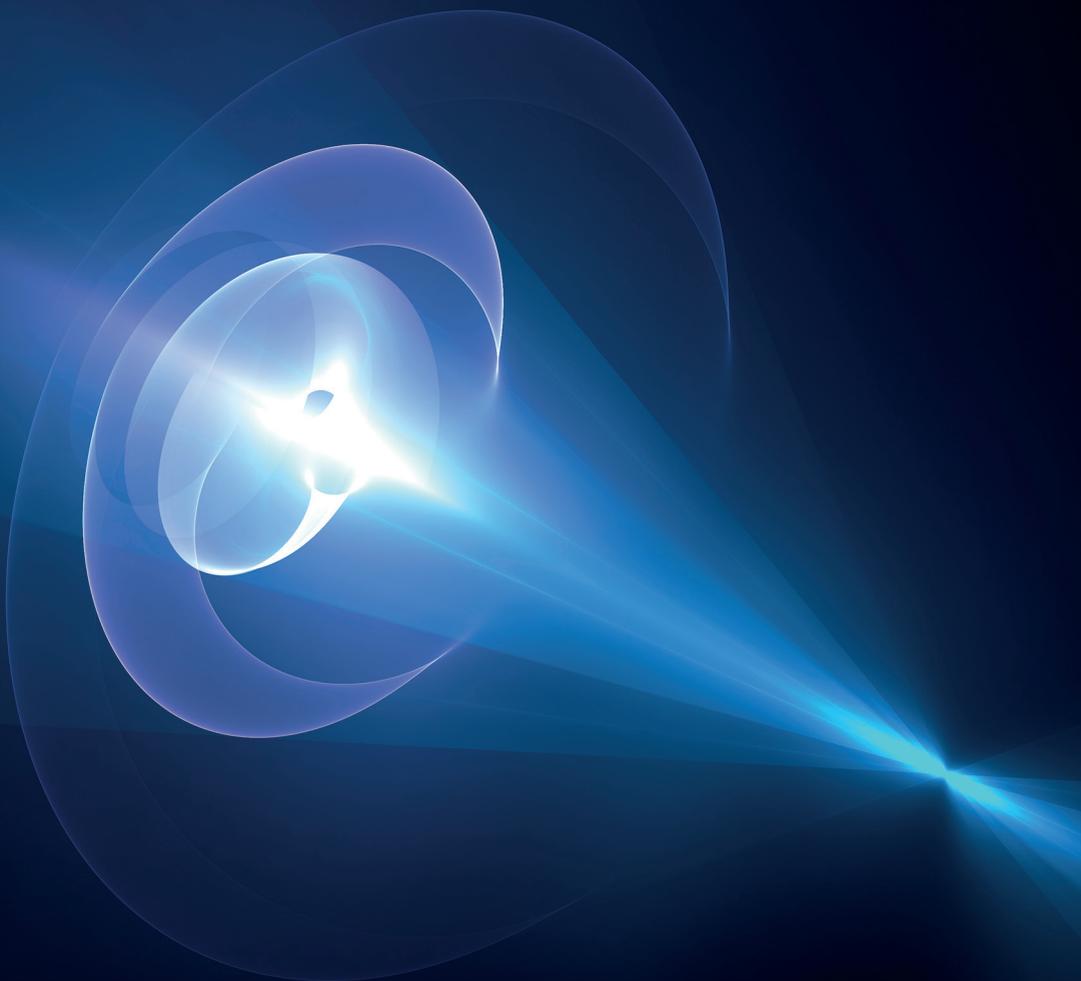


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Series in Coherent Sources and Applications

**SERIES EDITOR**

**Dr F J Duarte** (Interferometric Optics, Rochester, New York; ECE, University of New Mexico)



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## Series in Coherent Sources and Applications

### About the Editor

F J Duarte is a laser physicist based in Western New York, USA. He has a 30+ year experience in the academic, industrial and defense sectors. Duarte is editor/author of 13 laser optics books and sole author of two books (*Tunable Laser Optics* and *Quantum Optics for Engineers*). He has made original contributions to the field of narrow-linewidth tunable laser oscillators, organic laser gain media, nanoparticle solid-state laser materials, and laser interferometry. He is also the author of the multiple-prism grating dispersion theory applicable to tunable lasers, laser pulse compression, and coherent microscopy. Duarte is a Fellow of the Australian Institute of Physics (1987) and a Fellow the Optical Society of America (1993). He has been awarded the Paul F Foreman Engineering Excellence Award and the David Richardson Medal from the Optical Society.

### Coherent Sources and Applications

Since the discovery of the laser, applications of this wondrous emitter of coherent radiation have grown enormously. Subsequently we have also become familiar with additional sources of coherent radiation such as the free electron laser, optical parametric oscillators, and interferometric emitters. The aim of this new ebook series is to explore and explain the physics and technology of widely applied sources of coherent radiation and to match them with utilitarian and cutting-edge scientific applications. Selected coherent sources are those that offer advantages in particular emission characteristics areas such as broad tunability, high spectral coherence, high energy, or high power. An additional area of inclusion are those coherent sources capable of high performance in the miniaturized realm.

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