



Practical Applications of Microresonators in Optics and Photonics (Optical Science and Engineering)

From Brand: CRC Press



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Assembling an international team of experts, this book reports on the progress in the rapidly growing field of monolithic micro- and nanoresonators. The book opens with a chapter on photonic crystal-based resonators (nanocavities). It goes on to describe resonators in which the closed trajectories of light are supported by any variety of total internal reflection in curved and polygonal transparent dielectric structures. The book also covers distributed feedback microresonators for slow light, controllable dispersion, and enhanced nonlinearity. A portion of coverage is dedicated to the unique properties of resonators, which are extremely efficient tools when conducting multiple applications.

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Editorial Review

About the Author

Andrey B. Matsko has been a principal engineer with OEwaves Inc. since 2007. He has numerous publications in the field and holds several patents. His current research interests include applications of whispering gallery mode resonators in quantum and nonlinear optics, and photonics, coherence effects in resonant media, and quantum theory of measurements. He received JPL's Lew Allen Award for excellence in 2005.

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