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DOI: 10.1119/1.18450 Corpus ID: 120605878. Optical Coherence and Quantum Optics @inproceedings{Mandel1995OpticalCA, title={Optical Coherence and Quantum Optics}, author={L. Mandel and E. Wolf}, year={1995} }

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Optical Coherence and Quantum Optics by Leonard Mandel ...

This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, foundations of radiometry, effects of source coherence on the spectra of radiated fields, coherence theory of laser modes, and scattering of partially coherent light by random media.

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Optical Coherence and Quantum Optics

Optical coherence and quantum optics LEONARD MANDEL EMIL WOLF. Preface xxv 1 Elements of probability theory 1 1.1 Definitions 1 1.2 Properties of probabilities 3 1 .2.1 Joint probabilities 3 1 .2.2 Conditional probabilities 5 1 .2.3 Bayes' theorem on inverse probabilities 6

Optical coherence and quantum optics - GBV

Optical Coherence and Quantum Optics. Cambridge: Cambridge University Press; 1995. Google Scholar 65. Kok P, Munro WJ, Nemoto K, Ralph TC, Dowling J et al. Linear optical quantum computing with ...

Integrated sources of photon quantum states based on ...

Optical techniques; Optics and photonics ... i.e. any quantum coherence of the electron is lost, which, however, is fine for initializing the positions of the charges. ... Denning, E. V ...

All-optical charging and charge transport in quantum dots ...

Coherence was originally conceived in connection with Thomas Young's double-slit experiment in optics but is now used in any field that involves waves, such as acoustics, electrical engineering, neuroscience, and quantum mechanics. Coherence describes the statistical similarity of a field (electromagnetic field, quantum wave packet etc.) at two points in space or time.

Coherence (physics) - Wikipedia

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Optical Coherence and Quantum Optics 1, Mandel, Leonard ...

L. Mandel, E. Wolf Optical Coherence and Quantum Optics (Cambridge 1995). D. F. Walls and G. J. Milburn Quantum Optics (Springer 1994). Crispin Gardiner and Peter Zoller, Quantum Noise (Springer 2004). H.M. Moya-Cessa and F. Soto-Eguibar, Introduction to Quantum Optics (Rinton Press 2011). M. O. Scully and M. S. Zubairy Quantum Optics ...

Quantum optics - Wikipedia

In such a case, quantum correlations between optical modes are not only accessible via negativities in a joint quasiprobability description, $P(\alpha_1, \alpha_2)$, but also accessible via conditional quasiprobabilities, see for an early work connecting the usefulness of such an approach to quantum gates.

Quasiprobability distributions for quantum-optical ...

Optical coherence and quantum optics. [Leonard Mandel; Emil Wolf] -- This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, ...

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Optical coherence and quantum optics : Mandel, Leonard ...

WASHINGTON — Researchers have shown that a detection technology borrowed from quantum optics can be used to perform optical coherence tomography (OCT) with much lower light power than previously possible. This could greatly improve the imaging quality available from OCT used for medical imaging applications.

Quantum-Inspired Approach ... - The Optical Society

Researchers have shown that a detection technology borrowed from quantum optics can be used to perform optical coherence tomography (OCT) with much lower light power than previously possible. This...

Quantum-inspired approach dramatically lowers light power ...

Optical Coherence and Quantum Optics. This book presents a systematic treatment of a broad area of modern optical physics dealing with coherence and fluctuations of light. This field has largely...

Optical Coherence and Quantum Optics - Leonard Mandel ...

It is noted that the fields historically described as coherent in optics have only first-order coherence. On the other hand, the existence, in principle, of fields coherent to all orders is shown...

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