

Semi-Classical Description of Matter-Light Interaction

The evolution of interacting quantum systems

The semi-classical approach: atoms interacting with a classical electromagnetic field

Principles of lasers

Quantum Description of Light and its Interaction with Matter

Quantisation of free radiation

Free quantum radiation

Interaction of an atom with the quantised electromagnetic field

Applying Both Approaches

Non-linear optics: from the semi-classical approach to quantum effects

Laser manipulation of atoms: from incoherent atom optics to atom lasers

References

Index

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