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May 19th, 2020 - the eighth international winterschool on new developments in solid state physics entitled interaction and scattering phenomena in nanostructures was held in mauterndorf castle salzburg austria on 14 18 feb 1994 a total of 69 papers including posters

were presented at the meeting 28 invited papers are printed in this volume as usual it was intended to have the most recent highlights'

'**microcavities and photonic bandgaps physics and**

May 15th, 2020 - the control of optical modes in microcavities or in photonic bandgap pbg materials is ing of age although these ideas could have been developed some time ago it is only recently that they have emerged due to advances in both atomic physics and in fabrication techniques be it on the high quality dielectric mirrors required for high finesse fabry perot resonators or in semiconductor'

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May 31st, 2020 - the appearance of rabi oscillations in the time domain in semiconductor microcavities mc has long been established ever since the first time resolved reflection measurement from such samples in these experiments a short laser pulse excites the rabi split exciton polariton and then some optical property are measured as a function of time four wave mixing reflectivity etc''**pdf silicon based microcavities theory and experiment**

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February 7th, 2020 - polariton polarization sensitive phenomena in planar semiconductor microcavities i a shelykh 1 2 a v kavokin 3 4 yuri g rubo 3 5 t c h liew 6 7 and g malpuech 8 published 1 december 2009 2010 iop publishing ltd semiconductor science and technology volume 25 number 1'

'**strong coupling and polariton lasing in te based**

March 15th, 2020 - we report on properties of an optical microcavity based on cd zn mg te layers and embedding cd zn te quantum wells the key point of the structure design is the lattice matching of the whole structure to mgte which eliminates the internal strain and allows one to embed an arbitrary number of unstrained quantum wells in the microcavity we evidence the strong light matter coupling regime''***semiconductor science and technology***

May 4th, 2020 - the success of this conference series relies heavily on the invited speakers who made real efforts to give lucid presentations of their work the event s strong international tradition was maintained by a total of about 190 scientists attending from 20 countries'

'***oscillatory behaviour in the nonlinear emission of***

May 5th, 2020 - we have observed marked oscillations in the time resolved photoluminescence of a semiconductor microcavity under non resonant excitation conditions hot excitons created with an ultrashort light pulse rapidly relax into polaritons in the cavity with a large in plane momentum k shortly after illumination above a certain excitation power the polaritons accumulate into an energy trap at the'

'**microcavities oxford university press**

May 27th, 2020 - rapid development of microfabrication and assembly of nanostructures has opened up many opportunities to miniaturize structures that confine light producing unusual and extremely interesting optical properties this book addresses the large variety of optical phenomena taking place in confined solid state structures microcavities''**physics of photonic semiconductor devices epfl**

May 26th, 2020 - english summary series of lectures covering the physics of quantum heterostructures dielectric microcavities and photonic crystal cavities as well as the properties of the main light emitting devices that are light emitting diodes leds and laser diodes lds'

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nonclassical light generation from iii v and group iv solid state cavity quantum systems'

'giant optical nonlinearities from rydberg excitons in May 10th, 2020 - the achievement of strong coupling between quantum well excitons and optical photons in semiconductor microcavities 1 has ushered in new lines of research on exciton polariton systems their''pdf semiconductor detector systems series on

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May 18th, 2020 - a semiconductor microcavity structure microcavities represent a new interface where light and matter meet to produce remarkable nonlinear effects this physics can be exploited in the realisation of the next generation of low threshold lasers'

'spontaneous emission and laser oscillation in microcavities

*May 9th, 2020 - spontaneous emission and laser oscillation in microcavities presents the basics of optical microcavities the volume is divided into ten chapters each written by respected authorities in their areas the book surveys several methods describing free space spontaneous emission and discusses changes in the feature due to the presence of a cavity''***multivalley engineering in semiconductor microcavities**

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'strong coupling in semiconductor microcavities springerlink

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