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ushered in new lines of
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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
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interactions between
photons and excitations
produce

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**others'"quantum well
excitons in
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well excitons vol 93 no 9
can occur when the
coupling of the
electromagnetic field to the
crystal excitation is smaller
than the width of the cavity
mode weak coupling regime
irreversible decay occurs
but the emission process is
modified with respect to the
free space case'

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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'

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heterostructures

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assembled vertically to

fabricate a new class of

van der waals vdw

heterostructures a few

atomic layers thick

patible with a wide range

of substrates and

optoelectronic device

geometries enabling new

strategies for control of

light matter coupling here

we incorporate

molybdenum diselenide

boron nitride mose₂ hbn

quantum wells qws in a

tunable optical'

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microcavities have attracted

attention due to the

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regime allowing for the

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with in situ spectral
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our tunable microcavity is
a hybrid system
consisting of a bottom
semiconductor
distributed bragg
reflector dbr with a cavity
containing quantum wells
qws grown on top and a
dielectric concave dbr
separated by a
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nanopositioners allow
independent'**

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most active areas in solid
state research written by
leading experts in solid
state physics this book
provides both a prehensive
review as well as a
excellent introduction to
fundamental and applied
aspects of light matter
coupling in microcavities'*

**'strong coupling in
organic semiconductor
microcavities**

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we report a room temperature study of the strong coupling regime in a planar microcavity using j aggregates of cyanine dyes the characteristic features of energetic anticrossing between photon and exciton clearly observed indicating the formation of cavity

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physics of microcavities and
their intriguing potential
applications are addressed
in this book oriented to
undergraduate and
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transport in crystalline
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such as si ge gaas gan
etc has been extensively
studied over the past two
decades in fact study of
phonon physics in
crystalline semiconductor
materials in both bulk and
nanostructure forms has
been the cornerstone of
the emerging field of
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microcavities across which we can apply a voltage polaritons can be polarised this means that the electron and hole pairs which make them up are separated to opposite sides of the thin layers in which they are formed this can make extremely fast electrically controlled optical amplifiers as well as spin switches'

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microcavities represent a
unique laboratory for
quantum optics and
photonics they exhibit a
number of beautiful
effects including lasing
superfluidity super
radiance and
entanglement the book is
written by four
practitioners strongly
involved in experiments
and theories of
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dots are exciting
nanostructures that show
atom like behavior
because of their small
size and three
dimensional confinement
due to the confinement
electronic states in
quantum dots are
quantized and such
structures are often
referred to as artificial
atoms" semiconductor
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