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the mobilities and the silicon bandgap. The mobilities are calculated at the mean base doping level, which is determined in an iterative way by fitting to the measured intrinsic base sheet resistance. Then, the

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total bandgap narrowing can be
obtained from the slope of a
graph of (SiGe) versus the
reciprocal temperature.

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This paper describes a method for characterizing the bandgap narrowing and parasitic energy barrier in SiGe heterojunction bipolar transistors (HBTs), fabricated by the
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The energy band gap narrowing
effect in heavily C-doped GaAs
was investigated using
photoluminescence spectroscopy.

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The band gap was determined over the hole density range 10^{17} – 4×10^{20} cm^{-3} at 10 and 300 K. The band gap data at low temperatures confirm the available theoretical calculations up to 10^{20} cm^{-3} .

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~~Determination of band gap
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Bandgap narrowing in p-type epitaxial silicon uniformly doped with boron in the concentration range 2×10^{17} to $5 \times 10^{18} \text{ cm}^{-3}$ is evaluated from the temperature dependence of the

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collector current of npn bipolar transistors. The study is focussed on the sensitivity of the extracted bandgap narrowing to the model used to describe the intrinsic carrier concentration in pure silicon.

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Electrical determination of
bandgap narrowing and parasitic
energy barriers in SiGe and SiGeC
heterojunction bipolar transistors
Abstract: A novel electrical
method is described which allows

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the extraction of bandgap
narrowing within the base of SiGe
heterojunction bipolar transistors
due to heavy doping effects and
the presence of germanium.

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bandgap narrowing and ...~~

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Empirical determination of the energy band gap narrowing in highly doped n+ silicon J. Appl. Phys. 114, 044508 (2013); 10.1063/1.4816694 Electronic properties of titanium in boron-doped silicon analyzed by temperature-dependent

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photoluminescence and injection-
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Band gap change in doped ZnO is an observed phenomenon that is very interesting from the fundamental point of view. This work is focused on the preparation of pure and single phase nanostructured ZnO and Cu as well as Mn-doped ZnO for

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the purpose of understanding the mechanisms of band gap narrowing in the materials.

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In the analysis of highly doped silicon, energy band gap

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Parasitic Energy narrowing (BGN) and degeneracy effects may be accounted for separately, as a net BGN in conjunction with Fermi-Dirac statistics, or lumped together in an apparent BGN used with Boltzmann statistics.

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Band gap narrowing of doped compounds with respect to pure ZnO can be said to be mainly due to the downward shifts of the conduction band (Fig. 18) for both the nanostructured and micron materials. Thus, mechanisms for

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Band gap narrowing and widening in materials are very complex processes depending on whether they are nano- or micron-sized crystallites and the type of elements involved in the doping process.

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Empirical determination of the energy band gap narrowing in p{sup +} silicon heavily doped with boron. Journal Article Yan, Di; Cuevas, Andres - Journal of

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Applied Physics. In the analysis of highly doped silicon, energy band gap narrowing (BGN) and degeneracy effects may be accounted for separately, as a net BGN in conjunction with Fermi-Dirac ...

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~~Bandgap narrowing and emitter
efficiency in heavily doped ...~~

The narrowing of the bandgap is not thought to play a significant role here, as the bandgap only narrows significantly at dopant concentrations of around 10^{18} cm⁻³ or greater, whereas here

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~~Empirical determination of the
energy band gap narrowing ...~~

In solid-state physics, a band gap, also called an energy gap, is an energy range in a solid where no electronic states can exist. In

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graphs of the electronic band structure of solids, the band gap generally refers to the energy difference between the top of the valence band and the bottom of the conduction band in insulators and semiconductors. It is the energy required to promote a

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valence electron bound to an
atom to become a conduction
electron, which is free to move
within the crystal lattice

~~Band gap - Wikipedia~~

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epitaxial silicon uniformly doped

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with boron in the concentration range 2×10^{17} to 5×10^{18} cm^{-3} is evaluated from the temperature dependence of the collector current of npn bipolar transistors. The study is focussed on the sensitivity of the extracted bandgap narrowing to the model

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used to describe the intrinsic carrier concentration in pure silicon.

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effects of energy band gap
narrowing (BGN) and degeneracy
(FD statistics) into a
mathematically convenient
parameter that has been called
the apparent BGN. Such
terminology has also taken root in
the experimental realm, due to

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the fact that most measurements of the energy band gap narrowing have been analyzed using Boltzmann statistics. This means

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