

Re: Information about superluminescent diodes (SLD)?

Source: <http://sci.tech-archive.net/Archive/sci.optics/2005-10/msg00261.html>

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 - *Date:* Fri, 28 Oct 2005 10:55:51 +0200
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> When you google make sure you google in the web section, not just the
> groups section. I found quite a bit in the web google section 11K hits
> on superluminescent LED.

So did I. Asking here was my last try.
But what I found with google was not fundamental enough for my purpose.

> The structure is very similar to laser diodes except the sld has no
> optical feedback. Since the feedback is from the end mirrors in a
> laser diode the end mirrors are absent in the sld. The front side of
> the sld must have a very low reflectivity ar coating.
> Another method Schubert mentions is removing part of the metallic
> contact in the rear creating a lossy dielectric near the rear facet or
> mirror, because there is no injection current (no metal) the cavity is
> not pumped.
>
> These devices look like a hybrid between laser diodes and LED's, and I
> would bet they were discovered by serendipidty in the lab from an
> observant grad student and dumb luck. Or was it 99% persperation and
> 1% being awake for the inspiration?

I will see, if they have the book in the university's library.
Thank you!

Karlo
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- *References:*
 - ◆ ***Information about superluminescent diodes (SLD)?***
 - ◇ *From:* Karlo Janos
 - ◆ ***Re: Information about superluminescent diodes (SLD)?***
 - ◇ *From:* mpate
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