

Measurement Sheet

Lab #3: ZnS:Cu LED

MIT Nanomaker_Spring 2013

Experiment #1: ZnS:Cu LED

Please follow the instruction to make your own ZnS:Cu LED.

- 1) What is ITO? What do we use it for?
- 2) Why is ITO transparent in the visible light range? Is it transparent in the ultraviolet also?
- 3) Why do we need a curing agent for epoxy resin?
- 4) How to change the emission color of ZnS:Cu phosphor?

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Problem 42.31 from Young, Hugh D., Roger A. Freeman, and A. Lewis Ford. *University Physics with Modern Physics*. 13th ed. Addison-Wesley, 2011. ISBN: 9780321696861.

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