

# **IMPACT OF ELECTRICAL CONTACTING SCHEME ON PERFORMANCE OF InGaN/GaN SCHOTTKY SOLAR CELLS**

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Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University  
in partial fulfillment of the requirements for the degree of

**Master of Science  
In  
Electrical Engineering**

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Description of item under review for fair use: Figure 1.1 World Energy Consumption (1990-2040)[1].

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Description of item under review for fair use: Figure 1.2 Recent Trend in Global Carbon Dioxide Concentrations [2]

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Description of item under review for fair use: Figure 1.4 Annual PV Installations [9].

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Description of item under review for fair use: Figure 1.5 Efficiency and cost projections for first, second, and third-generation PV technologies [11].

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Description of item under review for fair use: Figure 1.6 Best Research-Cell Efficiencies [12].

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Name: Aditya Jain

Description of item under review for fair use: Table 1.1 Values of band gap and efficiency for tandems with three to eight junctions calculated at 500X with a black body spectrum at 6000K [14].

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Description of item under review for fair use: Figure 1.7 Band gap energies of the InGaN alloy system cover the entire air-mass-1.5 solar spectrum. [20]

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