

Production Technologies for Flexible Photovoltaic

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Abstract:

Introduction:

The lecture titled “Production Technologies for Flexible Photovoltaic” gives an overview on flexible PV markets and possible products which could be made of flexible PV. The author compares different flexible technologies presenting advantages and still existing challenges. He also gives an outlook on the development of different technologies during the next years.

Engineering Details:

Furthermore a summary of different approaches in simultaneous engineering for scaling-up processes in renewable technologies is given. The author explains pros and cons of the batch approach in comparison to the roll-to-roll approach combined with an insight on different machine building concepts and news in that field, e.g. the Click&Coat™ concept for highest flexibility in the field of pilot lines. Then he gives an outlook on possible production methods to bond flexible solar cells to flexible substrates and how to draw up consumer products.

Summary:

At the end the author summarizes the results of the above mentioned points.