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Abstract This paper describes characteristics and problems of the capacity planning process in

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semiconductor wafer fabrication facilities. Twenty-two factors that contribute to capacity loss are identified and discussed.

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This paper describes characteristics and problems of the capacity planning

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process in semiconductor wafer fabrication facilities. Twenty-two factors that contribute to capacity loss are identified and discussed. Information on these loss factors was obtained through three sources: 1) a literature review; 2) an extensive survey, interview, and workshop process; and 3) a variety of queuing and ...

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The inclusion of capacity loss factors in capacity planning is crucial to ensure that an organization maintains profitability. Specifically, for Integrated

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Circuit (IC) packaging, wherein the demand largely exceeds the facility's capability, failure to address various capacity loss factors can result in low fill rate, hence revenue reduction.

Impact of capacity loss factors in front-of-line IC ...

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semiconductor manufacturing,
numerous studies depict capacity
planning for wafer fabs. Neacyet. al.
[1994] describe a survey of over 200
participants from companies across the
United States and Europe, highlighting
difficulties with current capacity
planning methods, as well as factors that

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contribute to capacity loss in wafer fabs.

CAPACITY PLANNING FOR SEMICONDUCTOR WAFER FABRICATION WITH ...

Another less obvious impact of variability is the capacity loss it generates. Robinson et al. (2003) indeed titled their article “Capacity Loss” Factors

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in Semiconductor Manufacturing " The link between . capacity loss and arises from the desire variability of semiconductor manufacturing companies to

A literature review on variability in semiconductor ...

Workflows are interrupted, there is a

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loss in output capacity and revenue. Of the companies who experience an unplanned downtime, 46% could not deliver services to customers, 37% lost production time on critical assets, and 29% were completely unable to service or support specific equipment or assets.

Heat Exchangers in Semiconductor

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” The link between capacity loss and
variability arises from the desire of
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**(PDF) A Literature Review on
Variability in Semiconductor ...**
semiconductor companies between 1993

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and 1996, industry over-capacity in 1996 forced company restructuring and workforce reductions, especially among semiconductor equipment suppliers. In recent years, investors have become very attracted to high technology firms and the stock market is influencing the way companies are doing business. Having ...

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Profitability in the Semiconductor Industry

Nuclear power plants are at the high end of the range of capacity factors, ideally reduced only by the availability factor, i.e. maintenance and refueling. The largest nuclear plant in the US, Palo Verde Nuclear Generating Station has

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between its three reactors a nameplate capacity of 3,942 MW. In 2010 its annual generation was 31,200,000 MWh, leading to a capacity factor of:

Capacity factor - Wikipedia

Calculation of Power Loss (Synchronous)

This application note describes how to obtain the power loss required to

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calculate the temperature of a semiconductor device. Temperature control is important to ensuring product reliability. Figure 1 is a circuit diagram of a synchronous rectification type DC/DC converter. Figure 2 shows a switching node ...

Calculation of Power Loss

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(Synchronous) : Power Management
capacity for loss as they allow different scenarios to be explored. • Capacity for loss questionnaires – these can help you assess capacity for loss with your clients. On page 6 we provide a useful guide with a number of discussion themes which could be considered when assessing an individual's capacity for

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Assessing capacity for loss - Standard Life

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