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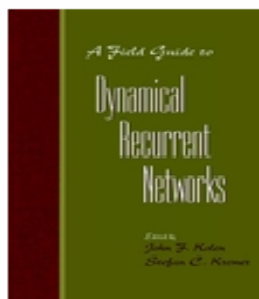
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Kolen, J. F. Kremer, S. C.

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Initialization of Markov random field clustering of large remote sensing images

Tran, T.N. Wehrens, R. Hoekman, D.H. Buydens, L.M.C.

Inst. for Molecules & Mater., Radboud Univ. Nijmegen, Netherlands

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Abstract

Markov random field (MRF) clustering, utilizing both spectral and spatial interpixel dependency information, often improves classification accuracy for **remote sensing** images, such as multichannel polarimetric synthetic aperture radar (SAR) images. However, it is heavily sensitive to initial conditions such as the choice of the number of clusters and their parameters. In this paper, an initialization scheme for MRF clustering approaches is suggested for **remote sensing** images. The proposed method derives suitable initial cluster parameters from a set of homogeneous regions, and estimates the number of clusters using the pseudolikelihood information criterion (PLIC). The method works best for an image consisting of many large homogeneous regions, such as agricultural crops areas. It is illustrated using a well-known polarimetric SAR image of Flevoland in the Netherlands. The experiment shows a superior performance compared to several other methods, such as fuzzy C-means and iterated conditional modes (ICM) clustering.

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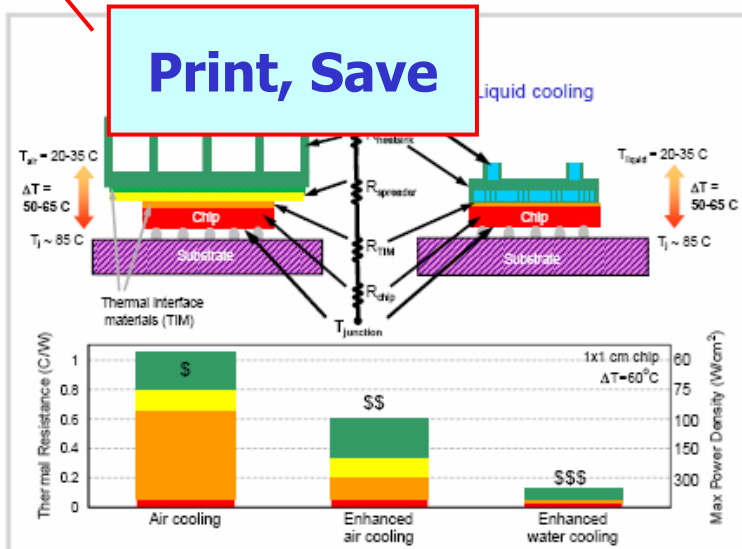


Figure 1.1.1: The bar segments (bottom to top) correspond to the chip, TIM layer, heat spreader, and heat sink or microchannel cooler.

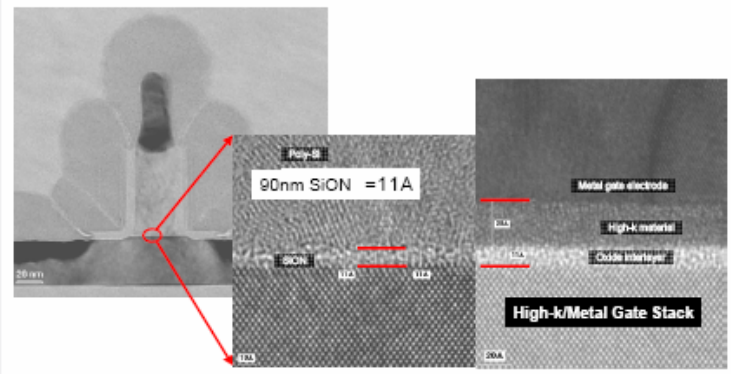


Figure 1.1.2: Gate stack cross-sections.



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Book Jung
Department of Computer Eng., State Univ. of New York, Buffalo, NY;

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Abstract

One of the major challenges for future personal communication systems (PCS) and personal communication networks (PCN) is the capacity needed to meet the growing demand. In this paper, fiber optics and wavelength division multiplexing (WDM) technology is proposed, and shown to be a cost-effective solution to this problem. In particular, it is shown that the mature fiber-optics and WDM technology could be used in conjunction with subcarrier multiplexing in microcells in order to transmit messages from subscribers to central base station (uplink) and in the opposite direction too. The access backbone network architecture of such a PCN is also investigated and key problems associated with it are highlighted

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Tonguz, O.K. Hanwook Jung

Dept. of Electr. & Comput. Eng., State Univ. of New York, Buffalo, NY, USA;

This paper appears in: **Lightwave Technology, Journal of**

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