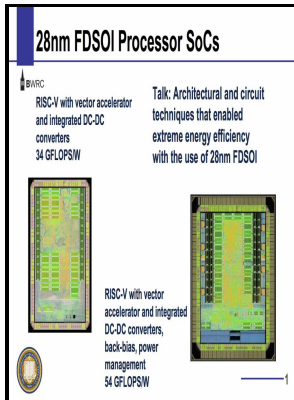


SOI design - analog, memory and digital techniques

Kluwer Academic Publishers - SOI Design: Analog, Memory and Digital Techniques / AvaxHome



Description: -

- Silicon-on-insulator technology.
Semiconductors -- Design and construction. SOI design - analog, memory and digital techniques
- SOI design - analog, memory and digital techniques
Notes: Includes bibliographical references and index.
This edition was published in 2002



Filesize: 66.710 MB

Tags: #SOI #Design: #Analog, #Memory #and #Digital #Techniques ## #AvaxHome

SOI Design: Analog, Memory and Digital Techniques / AvaxHome

Appropriate company and government clearances MUST be obtained prior to submission. A plot of drain current vs.

SOI Design: Analog, Memory and Digital Techniques

A scheme to achieve a substrate tie in PD-SOI is shown in figure 2.

SOI Design Analog, Memory and Digital Techniques

Sufficient vertical diffusion of a tank for a pMOS structure requires the tank to be diffused well below the deepest possible junction of the source and drain. If a high resistivity substrate is chosen, SOA is particularly good for integrated inductors. Variants on this device exist that allow standoff in both directions.

SOI Design Analog, Memory and Digital Techniques

Exact body voltage characteristics vary over temperature and supply voltage, since diode leakage is strongly temperature and voltage dependent.

SOI Design: Analog, Memory and Digital Techniques

The AC component of body voltage is determined by capacitive coupling during switching, in particular the gate to body coupling C_{gd} and drain to body coupling C_{db} .

Silicon on insulator

A layout option for this is shown in figure 2. This exists when a stacked transistor body is connected to supply rail, resulting in large reverse bias with respect to source.

SOI Design Analog, Memory and Digital Techniques

IEEE Transactions on Electron Devices.

Soi Design Analog Memory And Digital Techniques PDF Book

The test chip has a measured access time of 25 ns with a read cycle time of 70 ns.

Related Books

- [Biological implications of radionuclides released from nuclear industries - proceedings of an Intern](#)
- [Adalékok az esztétika történetéhez - \[Írta\] Lukács György.](#)
- [Launch boys adventures in northern waters](#)
- [SmartStart your Louisiana business](#)
- [Procedures and alternatives for procurement of books for the Ontario Region of Canadian Penitentiary](#)