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type Field (channel Stop) Implant 5.) Grow A Thick Field Oxide ... Jul 2th, 2024 LECTURE 03 - DEEP SUBMICRON (DSM) CMOS TECHNOLOGY Major Fabrication Steps For A DSM CMOS Process 1.) P And N Wells 2.) Shallow Trench Isolation 3.) Threshold Shift And Anti-punch Through Implants 4.) Thin Oxide And Gate Polysilicon 5.) Lightly Doped Drains And Sources 6.) Sidewall Spacer 7.) Heavily Doped Drains And Sources May 1th, 2024 Introduction To Deep Submicron CMOS Device Technology ... • CMOS Technology Trends • MOSFET Basics • Deep Submicron FET Fabrication Sequence • Enabling Technologies • Second-Order Consequences • Dealing With Process Variations In Manufacturing • Conclusions Disclaimer • A Proper Introduction Alone Would Take Weeks, Let Alone A Whole Semester Apr 2th, 2024.

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