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Digital Integrated Circuits 11 Resistance - 4 Source: Rabaey Example: Calculate the approximate resistance of a 1 µm-wide, 1 mm-long wire of (a) polysilicon; (b) aluminum Use the data of the above table Sheet resistance values for a typical 025 µm CMOS process
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DIGITAL INTEGRATED CIRCUITS A DESIGN PERSPECTIVE 2 N D E D I T I O N Jan M Rabaey, Anantha Chandrakasan, and Borivoje Nikolic

CONTENTS PART I: THE FABRICS Chapter 1:Introduction (32 pages) 11 A Historical Perspective 12 Issues in Digiital Integrated Circuit Design 13 Quality Metrics of a Digital Design 131 Cost of an Integrated Circuit

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Digital Integrated Circuits 22 Dynamic operation – 21 Source: Rabaey Inverter Delay • Minimum length devices • Assume that for WP = 2 WN =2W • same pull-up and pull-down currents • approx equal resistances RN = RP • approx equal rise tpLH and fall tpHL delays • Analyze as an RC network N W unit N unit unit P P unit R R W W R W W

Digital Integrated Circuits A Design Perspective

EE141 3 EE141 5 © Digital Integrated Circuits2nd Combinational Circuits NMOS Transistors in Series/Parallel Connection Transistors can be thought as a switch

CMOS Digital Integrated Circuits

4 © CMOS Digital Integrated Circuits – 3rd Edition As a result of the continuously increasing integration density and decreasing unit costs, the semiconductor

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Digital Integrated Circuit Design I ECE 425/525 Mechanics

Digital Integrated Circuit Design I ECE 425/525 Mechanics Professor R Daasch Digital Integrated Circuits,ADesign Perspective, JM Rabaey VLSI Design Techniques for Analog and Digital Circuits, Chapter 6 will be touched on briefly in lecture and will be

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Digital Integrated Circuits Internal races: Only one input transition to a dynamic logic block is allowed

Chapter 6 PROBLEMS - WordPress.com

Digital Integrated Circuits - 2nd Ed 5 Solution The lowest output resistance is obtained when all inputs are equal to zero Each of the pMOS have the same width, so all of them have the same resistance The worst case resis-tance happens when only one of the inputs …

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10 INTRODUCTION Chapter 1 11A Historical Perspective The concept of digital data manipulation has made a dramatic impact on our society One has long grown accustomed to the idea