· TAUGHT BY

1103 431

- 10 · prof. anshu sarje
  - COURSE TOPICS
  - 6 fundamentals of semiconductors
    - · band structure
    - · electron-hole statistics
    - · intrinsic and extrinsic semiconductors
  - · band diagrams
    - · carrier transport mechanisms
      - · generation recommbination -
      - · optical absorption and emission
      - · basics of circuit models
      - · parameter extraction

JUN 2018

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· circuit models for BJT		3
· frequency response and switching of	BITS	
non-ideal effects		
hetero-junction bipolar transistors		
Power BITe		
24. metal oxide semiconductor capacitor		
a Mos capacitor		`
· Structure and regions of operation	4 D	
· electrical characteristics		
· interface states	• @	
· blat-band condition	*	
· small-signal apacitances		
· metal oxide semiconductor field effect	transistor	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
regions of operation		
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