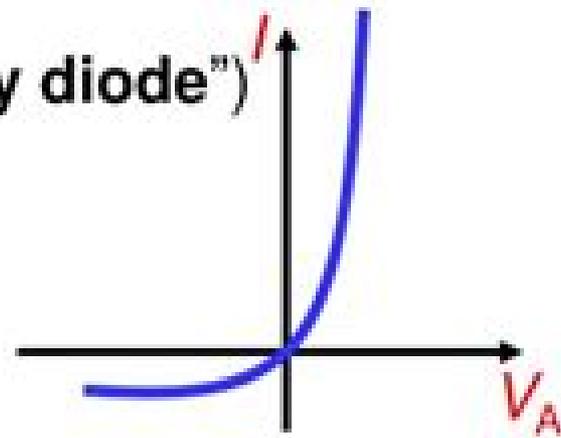


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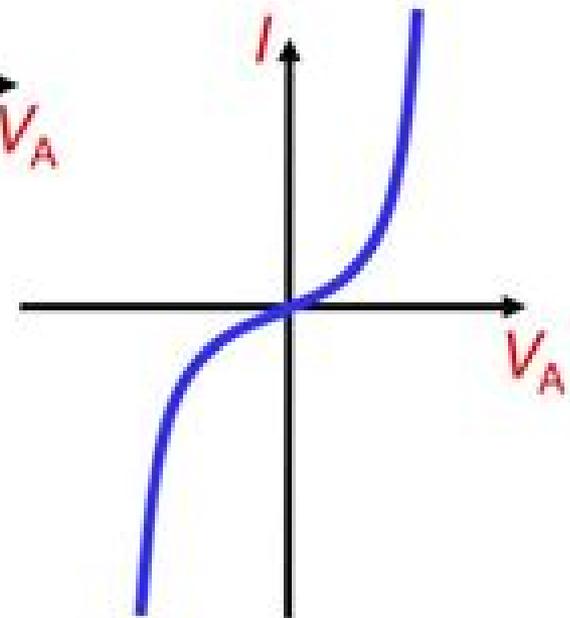
- There are 2 kinds of metal-semiconductor (MS) contact:



- Rectifying (“Schottky diode”)



- Non-rectifying (“Ohmic contact”)



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**Winfried Monch**



## **Metal Semiconductor Contacts:**

**Metal-semiconductor Contacts** E. H. Rhoderick, R. H. Williams, 1988 This second edition brings a greatly expanded treatment of the physics of Schottky barrier formation to its comprehensive discussion of modern semiconductor technology Topics covered include the current voltage relationship the capacitance of rectifying contacts and practical methods of fabricating contacts Written for semiconductor technologists and physicists engaged in research on semiconductor interfaces this text emphasizes practical implications wherever they are relevant to device technology **Metal - Semiconductor**

**Contacts and Devices** Simon S. Cohen, Gennady Sh. Gildenblat, 2014-12-01 VLSI Electronics Microstructure Science Volume 13 Metal Semiconductor Contacts and Devices presents the physics technology and applications of metal semiconductor barriers in digital integrated circuits The emphasis is placed on the interplay among the theory processing and characterization techniques in the development of practical metal semiconductor contacts and devices This volume contains chapters that are devoted to the discussion of the physics of metal semiconductor interfaces and its basic phenomena fabrication procedures and interface characterization techniques particularly ohmic contacts Contacts that involve polycrystalline silicon applications of the metal semiconductor barriers in MOS bipolar and MESFET digital integrated circuits and methods for measuring the barrier height are covered as well Process engineers device physicists circuit designers and students of this discipline will find the book very useful **Electronic Structure of Metal-Semiconductor**

**Contacts** Winfried Mönch, 2012-12-06 Interface and surface science have been important in the development of semiconductor physics right from the beginning on Modern device concepts are not only based on p n junctions which are interfaces between regions containing different types of dopants but take advantage of the electronic properties of semiconductor insulator interfaces heterojunctions between distinct semiconductors and metal semiconductor contacts The latter ones stood almost at the very beginning of semiconductor physics at the end of the last century The rectifying properties of metal semiconductor contacts were first described by Braun in 1874 A physically correct explanation of unilateral conduction as this deviation from Ohm's law was called could not be given at that time A prerequisite was Wilson's quantum theory of electronic semiconductors which he published in 1931 A few years later in 1938 Schottky finally explained the rectification at metal semiconductor contacts by a space **Metal-semiconductor Contacts** E. H. Rhoderick, 1978-01-01

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**Contacts** Michiel Reijer Jan van Buuren, 1997\* [Electronic Structure of Metal-Semiconductor Contacts](#) Winfried

Monch,1990-11-30      **Metal-semiconductor Ohmic Contacts** Ben Roger Gossick,1971      **Metal-semiconductor Contacts and Devices** Simon S. Cohen,Gennady Sh Gildenblat,1986      *Metal-Semiconductor Schottky Barrier Junctions and Their Applications* B.L. Sharma,2013-11-11 The present day semiconductor technology would be inconceivable without extensive use of Schottky barrier junctions In spite of an excellent book by Professor E H Rhoderick 1978 dealing with the basic principles of metal semiconductor contacts and a few recent review articles the need for a monograph on Metal Semiconductor Schottky Barrier Junctions and Their Applications has long been felt by students researchers and technologists It was in this context that the idea of publishing such a monograph by Mr Ellis H Rosenberg Senior Editor Plenum Publishing Corporation was considered very timely Due to the numerous and varied applications of Schottky barrier junctions the task of bringing it out however looked difficult in the beginning After discussions at various levels it was deemed appropriate to include only those typical applications which were extremely rich in R D and still posed many challenges so that it could be brought out in the stipulated time frame Keeping in view the larger interest it was also considered necessary to have the different topics of Schottky barrier junctions written by experts      Contacts to Semiconductors L. J. Brillson,1993-12-31 It is directed to microelectronics and optoelectronics industry researchers designers prototype builders and process engineers Researchers in physics applied physics electrical engineering and the materials science will also find this book an essential reference      **Metal-semiconductor Contacts on Pb(1-x)Sn(x)Te** K. W. Nill,1970      **Metal-semiconductor Contacts** ,1974      **Semiconductor Material and Device Characterization** Dieter K. Schroder,2006-02-10 This Third Edition updates a landmark text with the latest findings The Third Edition of the internationally lauded Semiconductor Material and Device Characterization brings the text fully up to date with the latest developments in the field and includes new pedagogical tools to assist readers Not only does the Third Edition set forth all the latest measurement techniques but it also examines new interpretations and new applications of existing techniques Semiconductor Material and Device Characterization remains the sole text dedicated to characterization techniques for measuring semiconductor materials and devices Coverage includes the full range of electrical and optical characterization methods including the more specialized chemical and physical techniques Readers familiar with the previous two editions will discover a thoroughly revised and updated Third Edition including Updated and revised figures and examples reflecting the most current data and information 260 new references offering access to the latest research and discussions in specialized topics New problems and review questions at the end of each chapter to test readers understanding of the material In addition readers will find fully updated and revised sections in each chapter Plus two new chapters have been added Charge Based and Probe Characterization introduces charge based measurement and Kelvin probes This chapter also examines probe based measurements including scanning capacitance scanning Kelvin force scanning spreading resistance and ballistic electron emission microscopy Reliability and Failure Analysis examines failure times and distribution functions

and discusses electromigration hot carriers gate oxide integrity negative bias temperature instability stress induced leakage current and electrostatic discharge Written by an internationally recognized authority in the field Semiconductor Material and Device Characterization remains essential reading for graduate students as well as for professionals working in the field of semiconductor devices and materials An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

**Metal-Semiconductor Contacts: Surface Morphology and BEEM.** R. Ludeke, M. Prietsch, A. Samsavar, IBM THOMAS J WATSON RESEARCH CENTER YORKTOWN HEIGHTS NY., 1992 Ballistic Electron Emission Spectroscopy BEEM is a promising new variant of STM spectroscopy that allows the determination of Schottky barrier heights with high lateral resolution for relatively thick approx 100 angstrom metal overlayers The technique encompasses the injection of electrons or holes with an STM which then reach the interface without scattering ballistically At the interface they will be reflected unless sufficient bias is applied between the tunneling tip and the metal overlayer to overcome the Schottky barrier height see Fig 1 Once the electrons reach the conduction band of the semiconductor they will be detected as a collector current  $I_c$  Representative  $I_c$  vs  $V_t$  where  $V_t$  is the tip to metal bias are shown in Fig 2 for Ag and Au films on GaP 110 The Schottky barrier height is associated with the voltage threshold  $V_0$  beyond which a current can be detected Because of the soft turn on of  $I_c$   $V_0$  is poorly defined unless the appropriate shape of the  $I$   $V$  curve is known from theoretical considerations *Metal-semiconductor Contacts and Devices* Simon S. Cohen, Gennady Sh. Goldenblat, 1986

**Metal-semiconductor Contacts and Related Phenomena** Uğur Büget, 1992 *Metal-semiconductor Contacts for Schottky Diode Fabrication* Mark D. Barlow, Youngstown State University. Dept. of Electrical and Computer Engineering, 2007 Semiconductor Contacts Heinz K. Henisch, 1984 Presents what is currently known about the electrical properties of contacts in terms of concepts and models It bridges the gap between the high level abstractions of the modern theory of solids and the phenomenological treatments widely employed in device physics **The electronic structure of metal semiconductor contacts** Regina Mach, 1979

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