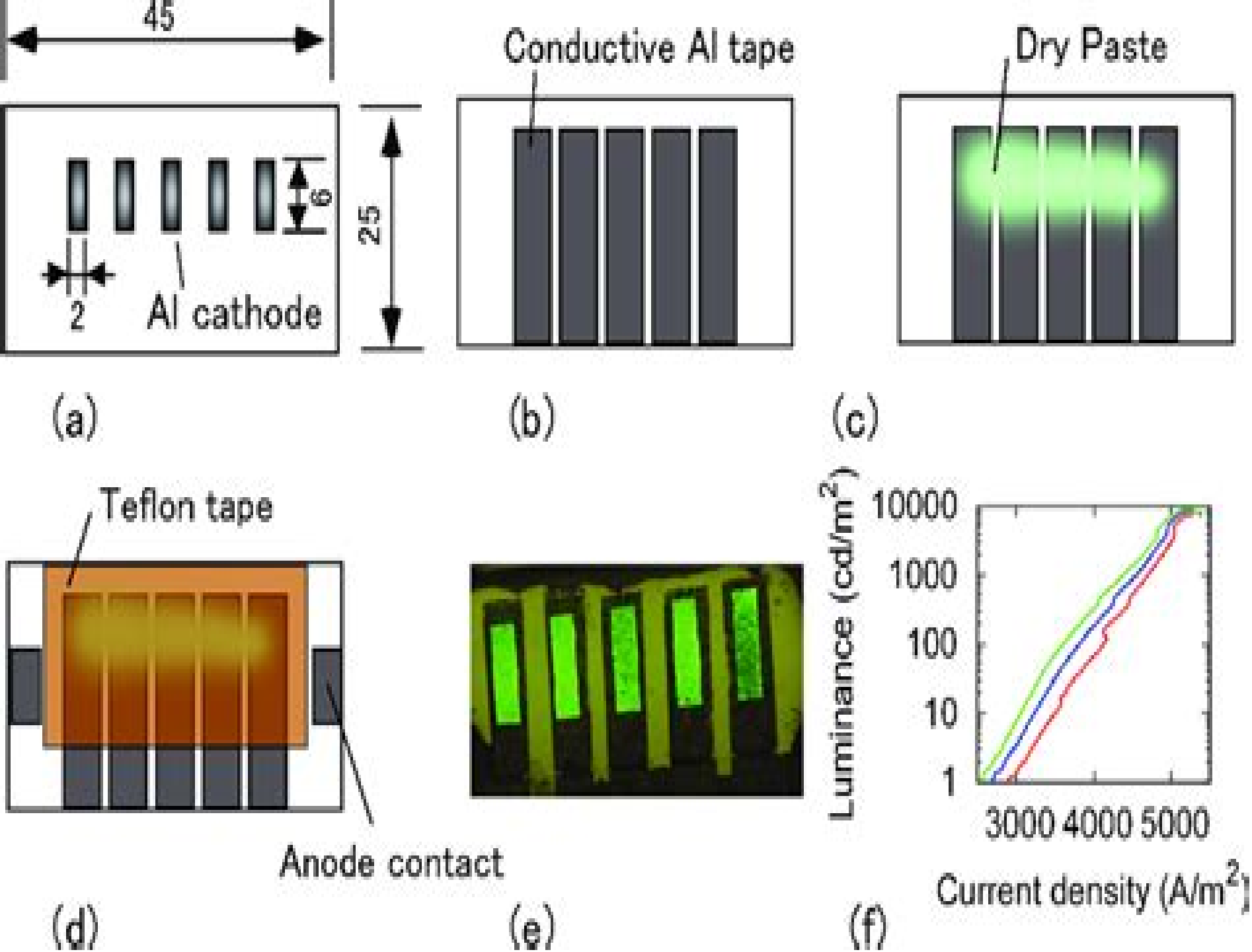
45
25
6
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Al cathode
Conductive Al tape
Dry Paste
(a)
(b)
(c)
Teflon tape
Anode contact
(d)
(e)
Luminance (cd/m^2)
10000
1000
100
10
1
3000 4000 5000
Current density (A/m^2)
(f)

Electrical Conduction In Thin Metal Films

Timothy J. Coutts

Electrical Conduction In Thin Metal Films:

Electrical Conduction in Thin Metal Films Timothy J. Coutts,1974 **Electrical Conduction in Ultra Thin Metal Films** R. M. Hill,1967 *The Materials Science of Thin Films* Milton Ohring,1992 Prepared as a textbook complete with problems after each chapter specifically intended for classroom use in universities **Electrical Conduction in Continuous and Discontinuous Thin Metal Films** Edwina Ann Pryde,City of London Polytechnic,1968 **The Physical Properties of Thin Metal Films** G.P. Zhigal'skii,Brian K. Jones,2003-07-10 Thin films of conducting materials such as metals alloys and semiconductors are currently in use in many areas of science and technology particularly in modern integrated circuit microelectronics that require high quality thin films for the manufacture of connection layers resistors and ohmic contacts These conducting films are also important for fundamental investigations in physics radio physics and physical chemistry Physical Properties of Thin Metal Films provides a clear presentation of the complex physical properties particular to thin conducting films and includes the necessary theory confirming experiments and applications The volume will be an invaluable reference for graduates engineers and scientists working in the electronics industry and fields of pure and applied science **Measurement Techniques for Thin Films** Bertram Schwartz,Newton Schwartz,1967 *Physics of Thin Films* Maurice H. Francombe,Richard W. Hoffman,2013-10-22 Physics of Thin Films Advances in Research and Development Volume 6 reviews the rapid progress that has been made in research and development concerning the physics of thin films with emphasis on metallic films Topics covered include anodic oxide films thin metal films and wires and multilayer magnetic films This volume is comprised of five chapters and begins with a discussion on the dielectric properties and the technique of plasma anodization which are relevant to the applications of anodic oxide films in electronic devices Conduction polarization and dielectric breakdown effects are also considered The next chapter examines studies on size dependent electrical conduction in thin metal films and wires paying particular attention to both classical and quantum size effects and some of the anisotropic characteristics of epitaxial metal films The reader is then introduced to the optical properties of metal films and interactions in multilayer magnetic films This text concludes with a chapter that looks at diffusion in metallic films and presents experimental results for phase forming systems miscible systems and lateral diffusion This monograph will be of value to students and practitioners of physics especially those interested in thin films

Ultrathin Metal Transparent Electrodes for the Optoelectronics Industry Dhriti Sundar Ghosh,2013-05-13 Transparent electrodes TEs are a class of materials that make it possible to bring electrical current or potentials in close proximity to optically active regions without significant loss of optical energy However it is a challenge to decouple the electrical and optical properties of a material as the property of conductivity is strongly coupled to the imaginary part of the refractive index An ideal TE has high transparency in combination with very low electrical resistivity The main objective of the thesis was to develop TEs which can replace expensive scarce and fragile Indium Tin Oxide ITO the most widely used TE

material in the industry today The thesis contains original work on ultrathin metal film UTMF based TEs which are essential elements in a wide range of optoelectronics consumer electronics and energy devices It presents new designs and fabrication methods and demonstrates the efficient use of UTMF TEs in organic light emitting diodes and solar cells achieving similar levels of efficiency to that of state of the art ITO Thin metal films on weakly-interacting substrates Andreas Jamnig,2020-09-30 Vapor based growth of thin metal films with controlled morphology on weakly interacting substrates WIS including oxides and van der Waals materials is essential for the fabrication of multifunctional metal contacts in a wide array of optoelectronic devices Achieving this entails a great challenge since weak film substrate interactions yield a pronounced and uncontrolled 3D morphology Moreover the far from equilibrium nature of vapor based film growth often leads to generation of mechanical stress which may further compromise device reliability and functionality The objectives of this thesis are related to metal film growth on WIS and seek to i contribute to the understanding of atomic scale processes that control film morphological evolution ii elucidate the dynamic competition between nanoscale processes that govern film stress generation and evolution and iii develop methodologies for manipulating and controlling nanoscale film morphology between 2D and 3D Investigations focus on magnetron sputter deposited Ag and Cu films on SiO2 and amorphous carbon a C substrates Research is conducted by strategically combining of in situ and real time film growth monitoring ex situ chemical and micro structural analysis optical modelling and deterministic growth simulations In the first part the scaling behavior of characteristic morphological transition thicknesses i e percolation and continuous film formation thickness during growth of Ag and Cu films on a C are established as function of deposition rate and temperature These data are interpreted using a theoretical framework based on the droplet growth theory and the kinetic freezing model for island coalescence from which the diffusion rates of film forming species during Ag and Cu growth are estimated By combining experimental data with ab initio molecular dynamics simulations diffusion of multiatomic clusters rather than monomers is identified as the rate limiting structure forming process In the second part the effect of minority metallic or gaseous species Cu N2 O2 on Ag film morphological evolution on SiO2 is studied By employing in situ spectroscopic ellipsometry it is found that addition of minority species at the film growth front promotes 2D morphology but also yields an increased continuous layer resistivity Ex situ analyses show that 2D morphology is favored because minority species hinder the rate of coalescence completion Hence a novel growth manipulation strategy is compiled in which minority species are deployed with high temporal precision to selectively target specific film growth stages and achieve 2D morphology while retaining opto electronic properties of pure Ag films In the third part the evolution of stress during Ag and Cu film growth on a C and its dependence on growth kinetics as determined by deposition rate substrate temperature is systematically investigated A general trend toward smaller compressive stress magnitudes with increasing temperature deposition rate is found related to increasing grain size decreasing adatom diffusion length Exception to this trend is found for Cu films in which oxygen incorporation from the

residual growth atmosphere at low deposition rates inhibits adatom diffusivity and decreases the magnitude of compressive stress The effect of N2 on stress type and magnitude in Ag films is also studied While Ag grown in N2 free atmosphere exhibits a typical compressive tensile compressive stress evolution as function of thickness addition of a few percent of N2 yields to a stress turnaround from compressive to tensile stress after film continuity which is attributed to giant grain growth and film roughening The overall results of the thesis provide the foundation to i determine diffusion rates over a wide range of WIS film substrates systems ii design non invasive strategies for multifunctional contacts in optoelectronic devices iii complete important missing pieces in the fundamental understanding of stress which can be used to expand theoretical descriptions for predicting and tuning stress magnitude La morphologie de films minces m talliques polycristallins labor s par condensation d une phase vapeur sur des substrats faible interaction SFI poss de un caract re 3D intrins que De plus la nature hors quilibre de la croissance du film depuis une phase vapeur conduit souvent la g n ration de contraintes m caniques ce qui peut compromettre davantage la fiabilit et la fonctionnalit des dispositifs opto lectroniques Les objectifs de cette th se sont li s la croissance de films m talliques sur SFI et visent i contribuer une meilleure compr hension des processus l chelle atomique qui contr lent l volution morphologique des films ii lucider les processus dynamiques qui r gissent la g n ration et l volution des contraintes en cours de croissance et iii d velopper des m thodologies pour manipuler et contr ler la morphologie des films l chelle nanom trique L originalit de l approche mise en uvre consiste suivre la croissance des films in situ et en temps r el par couplage de plusieurs diagnostics compl t par des analyses microstructurales ex situ Les grandeurs mesur es sont confront es des mod les optiques et des simulations atomistiques La premi re partie est consacr e une tude de comportement d chelonnement des paisseurs de transition morphologiques caract ristiques savoir la percolation et la continuit du film lors de la croissance de films polycristallins d Ag et de Cu sur carbone amorphe a C Ces grandeurs sont examin es de fa on syst matique en fonction de la vitesse de d p t et de la temp rature du substrat et interpr t es dans le cadre de la th orie de la croissance de gouttelettes suivant un mod le cin tique d crivant la coalescence d lots partir duquel les coefficients de diffusion des esp ces m talliques sont estim s En confrontant les donn es exp rimentales des simulations par dynamique mol culaire ab initio la diffusion de clusters multiatomiques est identifi e comme l tape limitante le processus de croissance Dans la seconde partie l incorporation et l impact sur la morphologie d esp ces m talliques ou gazeuses minoritaires Cu N2 O2 lors de la croissance de film Ag sur SiO2 est tudi A partir de mesures ellipsom triques in situ on constate que l addition d esp ces minoritaires favorise une morphologie 2D entravant le taux d ach vement de la coalescence mais donne galement une r sistivit accrue de la couche continue Par cons quent une strat gie de manipulation de la croissance est propos e dans laquelle des esp ces minoritaires sont d ploy es avec une grande pr cision temporelle pour cibler s lectivement des stades de croissance de film sp cifiques et obtenir une morphologie 2D tout en conservant les propri t s opto lectroniques des films d Ag pur Dans la troisi me partie l volution des contraintes r siduelles lors de la croissance des

films d Ag et de Cu sur a C et leur d pendance la cin tique de croissance est syst matiquement tudi e On observe une tendance g n rale vers des amplitudes de contrainte de compression plus faibles avec une augmentation de la temp rature vitesse de d p t li e l augmentation de la taille des grains la diminution de la longueur de diffusion des adatomes galement l ajout dans le plasma de N2 sur le type et l amplitude des contraintes dans les films d Ag est tudi L ajout de quelques pourcents de N2 en phase gaz donne lieu un renversement de la contrainte de compression et une volution en tension au del de la continuit du film Cet effet est attribu une croissance anormale des grains g ants et le d veloppement de rugosit de surface L ensemble des r sultats obtenus dans cette th se fournissent les bases pour i d terminer les coefficients de diffusion sur une large gamme de syst mes films SFI ii concevoir des strat gies non invasives pour les contacts multifonctionnels dans les dispositifs opto lectroniques iii apporter des l ments de compr hension l origine du d veloppement de contrainte qui permettent de pr dire et contr ler le niveau de contrainte intrins que la croissance de films minces polycristallins

Molecular and Nano Electronics: Analysis, Design and Simulation Jorge M. Seminario,2006-10-24 The aim of Molecular and Nano Electronics Analysis Design and Simulation is to draw together contributions from some of the most active researchers in this new field in order to illustrate a theory guided approach to the design of molecular and nano electronics The field of molecular and nano electronics has driven solutions for a post microelectronics era where microelectronics dominate through the use of silicon as the preferred material and photo lithography as the fabrication technique to build binary devices transistors The construction of such devices yields gates that are able to perform Boolean operations and can be combined with computational systems capable of storing processing and transmitting digital signals encoded as electron currents and charges Since the invention of the integrated circuits microelectronics has reached increasing performances by decreasing strategically the size of its devices and systems an approach known as scaling down which simultaneously allow the devices to operate at higher speeds Provides a theory guided approach to the design of molecular and nano electronics Includes solutions for researchers working in this area Contributions from some of the most active researchers in the field of nano electronics **Springer Handbook of Electronic and Photonic Materials** Safa Kasap,Peter Capper,2017-10-04 The second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications Its extensive coverage with clear illustrations and applications carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks It has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories The Springer Handbook of Electronic and Photonic Materials second edition includes practical applications used as examples details of experimental techniques useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary Along with significant updates to the content and the references the second edition includes a number of new chapters such as those covering novel materials and selected

applications This handbook is a valuable resource for graduate students researchers and practicing professionals working in the area of electronic optoelectronic and photonic materials **Electrical Conduction in Thin Gold-Glass Cement and Discontinuous Metal Films..** G. R. Witt,1976 *Surface Scattering Experiments with Conduction Electrons* Dieter Schumacher,2007-09-17 Surface Scattering Experiments with Conduction Electrons shows how this process can be used to investigate surface processes of thin metal films Since a thin film is in one direction of a size comparable to the mean free path of the conduction electrons such a film is both substrate and sensor and must be characterized by other surface analytical methodsas demonstrated here Also discussed is how the dc resistivity measurement permits the study of surface processes such as adsorption desorption and surface diffusion up to crystalline growth The in situ observation of epitaxial growth is additionally shown to be possible Thus the electronic structure of superimposed metal films and superlattices can be elucidated This is an essential topic for all surface physicists *Nanopackaging* James E. Morris,2008-12-30 Nanotechnologies are being applied to microelectronics packaging primarily in the applications of nanoparticle nanocomposites or in the exploitation of the superior mechanical electrical or thermal properties of carbon nanotubes Composite materials are studied for high k dielectrics resistors and inductors electrically conductive adhesives conductive inks underfill fillers and solder enhancement Nanopackaging is intended for industrial and academic researchers industrial electronics packaging engineers who need to keep abreast of their field and others with interests in nanotechnology It will survey the application of nanotechnologies to electronics packaging as represented by current research across the field

NASA Technical Report United States. National Aeronautics and Space Administration,1972 *Metallic Films for Electronic, Optical and Magnetic Applications* Katayun Barmak,Kevin Coffey,2014-02-13 Metallic films play an important role in modern technologies such as integrated circuits information storage displays sensors and coatings Metallic Films for Electronic Optical and Magnetic Applications reviews the structure processing and properties of metallic films Part one explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy This part also encompasses the processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Chapters in part two focus on the properties of metallic films including mechanical electrical magnetic optical and thermal properties Metallic Films for Electronic Optical and Magnetic Applications is a technical resource for electronics components manufacturers scientists and engineers working in the semiconductor industry product developers of sensors displays and other optoelectronic devices and academics working in the field Explores the structure of metallic films using characterization methods such as x ray diffraction and transmission electron microscopy Discusses processing of metallic films including structure formation during deposition and post deposition reactions and phase transformations Focuses on the properties of metallic films including mechanical electrical magnetic optical and thermal properties *Electrical conduction in thin aggregated metal films* ,1965 **Electrical**

Conduction in Thin Gold-glass Cermet and Discontinuous Metal Films G. R. Witt,1976 **Scientific and Technical Aerospace Reports** ,1988 Vacuum Deposition onto Webs, Films and Foils Charles Bishop,2015-08-15 Vacuum Deposition onto Webs Films and Foils Third Edition provides the latest information on vacuum deposition the technology that applies an even coating to a flexible material that can be held on a roll thereby offering a much faster and cheaper method of bulk coating than deposition onto single pieces or non flexible surfaces such as glass This technology has been used in industrial scale applications for some time including a wide range of metalized packaging Its potential as a high speed scalable process has seen an increasing range of new products emerging that employ this cost effective technology including solar energy products that are moving from rigid panels onto cheaper and more versatile flexible substrates flexible electronic circuit boards and flexible displays In this third edition all chapters are thoroughly revised with a significant amount of new information added including newly developed barrier measurement techniques improved in vacuum monitoring technologies and the latest developments in Atomic Layer Deposition ALD Provides the know how to maximize productivity of vacuum coating systems Thoroughly revised with a significant amount of new information added including newly developed barrier measurement techniques improved in vacuum monitoring technologies and the latest on Atomic Layer Deposition ALD Presents the latest information on vacuum deposition the technology that applies an even coating to a flexible material that can be held on a roll thereby offering a much faster and cheaper method of bulk coating Enables engineers to specify systems more effectively and enhances dialogue between non specialists and suppliers engineers Empowers those in rapidly expanding fields such as solar energy display panels and flexible electronics to unlock the potential of vacuum coating to transform their processes and products

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