

Fig. 3: Trench First then Trench [2]

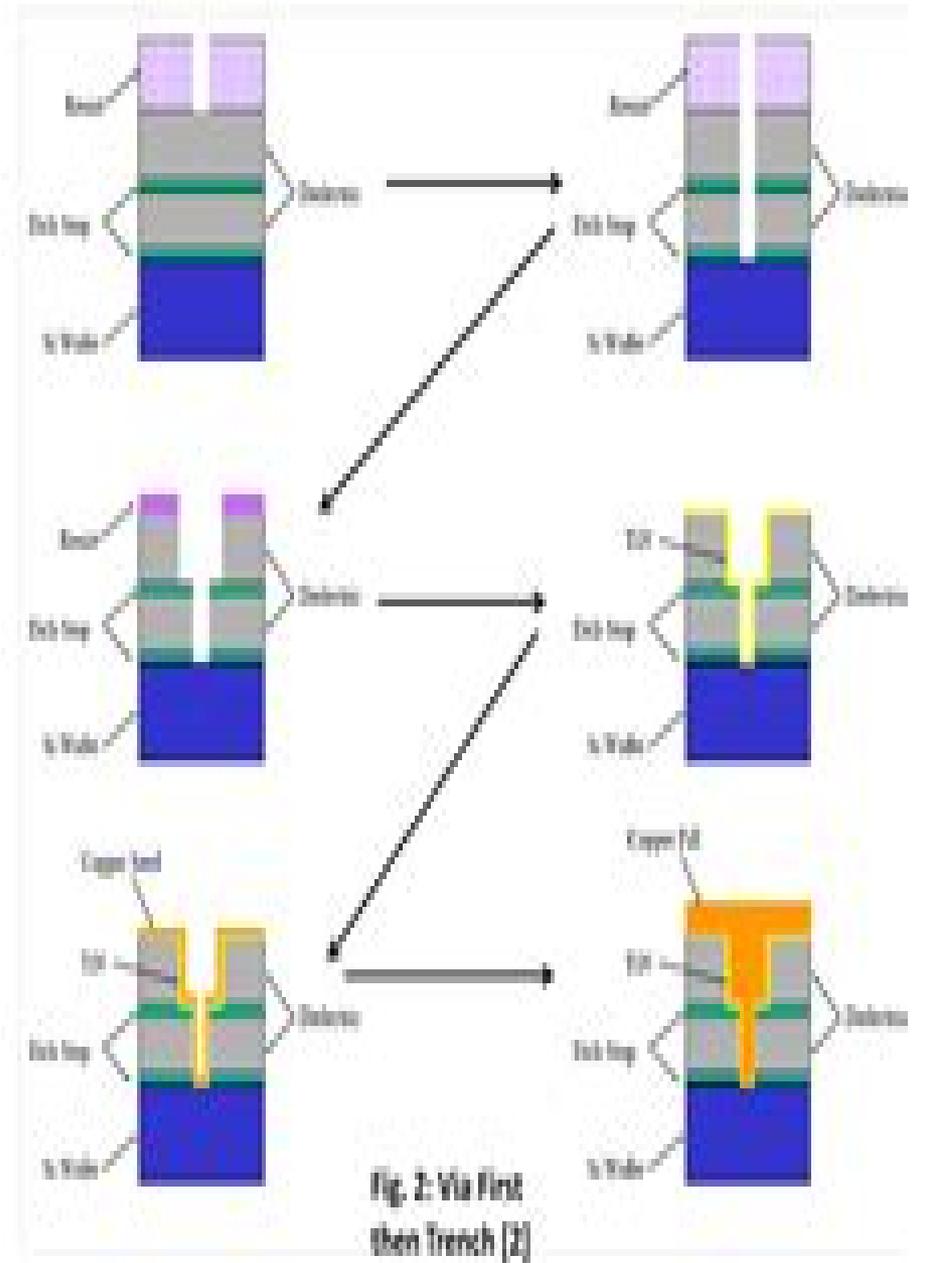


Fig. 2: Via First then Trench [2]

Fig. 2 : Dual Damascene Process [2]

# Damascene Process And Chemical Mechanical Planarization

**Robert Leon Opila**



## **Damascene Process And Chemical Mechanical Planarization:**

**Study of Nano-scale Copper Chemical Mechanical Planarization on Damascene Process for Semiconductor Integrated Circuits** □□□,2017      **Chemical-mechanical Planarization of Al and Cu Thin Films for the Damascene Process** Peter T. Wrschka,1999      **Integrated Modeling of Chemical Mechanical Planarization for Sub-Micron IC Fabrication** Jianfeng Luo,David A. Dornfeld,2013-03-09

Chemical mechanical planarization or chemical mechanical polishing as it is simultaneously referred to has emerged as one of the critical processes in semiconductor manufacturing and in the production of other related products and devices MEMS for example Since its introduction some 15 years ago CMP as it is commonly called has moved steadily into new and challenging areas of semiconductor fabrication Demands on it for consistent efficient and cost effective processing have been steady This has continued in the face of steadily decreasing feature sizes impressive increases in wafer size and a continuing array of new materials used in devices today There are a number of excellent existing references and monographs on CMP in circulation and we defer to them for detailed background information They are cited in the text Our focus here is on the important area of process models which have not kept pace with the tremendous expansion of applications of CMP Preston's equation is a valuable start but represents none of the subtleties of the process Specifically we refer to the development of models with sufficient detail to allow the evaluation and tradeoff of process inputs and parameters to assess impact on quality or quantity of production We call that an integrated model and more specifically we include the important role of the mechanical elements of the process

*Chemical-Mechanical Planarization of Semiconductor Materials* M.R. Oliver,2013-03-14

Chemical Mechanical Planarization CMP has emerged in the last two decades and grown rapidly as a basic technology widely used in semiconductor device fabrication As a semiconductor processing step it was developed at IBM in the mid 1980s From this beginning the technology has been widely adopted throughout the semiconductor industry As basic CMP technology has been understood and accepted throughout the semiconductor industry its uses in different parts of the semiconductor process have multiplied This includes special steps for some special processing flows such as for DRAM technology In addition the availability of CMP technology has enabled the implementation of new technologies with the best example being copper interconnect technology Copper could not be practically implemented into semiconductor process flows until the advent of CMP Unfortunately the rapid acceptance and implementation of CMP technology in wafer fabrication has occurred without a corresponding rate of advance in the underlying science Progress is being made in understanding the underlying CMP mechanisms but in general it is slow and uneven The most noteworthy exception to this trend is the science of metal CMP reactions where the scientific understanding is actually driving much of the advance of the technology There has been no corresponding progress in other CMP areas however      [Chemical Mechanical Planarization in IC Device Manufacturing III](#) Robert Leon Opila,2000 This volume contains the proceedings of the third international symposium on Chemical Mechanical

Planarization integrated circuit device manufacturing held at the 196th Meeting of the Electrochemical Society in Honolulu Hawaii October 20 22 1999     **Chemical Mechanical Planarization IV** R. L. Opila,2001     Integrated Modeling of Chemical Mechanical Planarization/Polishing (CMP) for Integrated Circuit Fabrication Jianfeng Luo,2003

**Chemical-Mechanical Planarization: Volume 767** Duane S. Boning,2003-08-27 Chemical mechanical planarization CMP has emerged as a critical fabrication technology for advanced integrated circuits Even as the applications of CMP have diversified and we have begun to understand aspects of the physics and chemistry of the process a new generation of CMP innovations is unfolding New slurries and consumables are under development New applications to novel devices continue to appear This book the most recent in a successful series on CMP offers a review of the advances to date and provides a comprehensive discussion of the future challenges that must be overcome Presentations from academia government labs and industry are featured Topics include CMP modeling CMP science CMP slurries and particles for planarization of copper oxide and other materials planarization applications including shallow trench isolation STI copper damascene and novel devices and CMP integration     Chip Scale Modeling of Chemical Mechanical Planarization (CMP) for Layout Dependent Variation Jihong Choi,2006     *The Role of Complexing Agents in the Chemical Mechanical Planarization of Copper* Serdar Aksu,2002

**Tribo-chemical Mechanisms of Copper Chemical Mechanical Planarization (CMP)** Shantanu Tripathi,2008  
*Colloidal Aspects of Chemical Mechanical Planarization (CMP)* Tanuja Danie Gopal,2004     *Chemical-Mechanical Polishing - Fundamentals and Challenges: Volume 566* S. V. Babu,2000-02-10 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners     **Colloidal Properties of Alumina Abrasives for Copper Chemical Mechanical Planarization** Robin Veronica Ihnfeldt,2005     **Chemical-Mechanical Planarization: Volume 867** Materials Research Society. Fall Meeting,2005-07-19 Technology requirements associated with the progressive scaling of devices for future technology nodes coupled with the aggressive introduction of new materials places tremendous demands on chemical mechanical polishing The goal of this 2005 book which is part of a popular series from MRS is to bring together experts from a broad spectrum of research and technology groups currently working on CMP to review advances made and to offer a comprehensive discussion of future challenges that must be overcome The book shows trends in the development of consumables process modules tool designs process integration modeling defect characterization and metrology Topics include planarization processes and applications consumables CMP pads and slurries CMP equipment and metrology and CMP modeling and simulation     *Advances in Chemical-Mechanical Polishing: Volume 816* Materials Research Society. Meeting,2004-09 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book first published in 2004 presents advances in fundamental understanding development and applications of chemical mechanical polishing CMP     Investigation of Mechanical Aspects of Chemical Mechanical Polishing Andrew Kunung Chang,2002     **Chemical-mechanical Polishing** ,2001

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