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LIQUID CRYSTAL DISPLAYS

ADDRESSING SCHEMES AND ELECTRO-OPTICAL EFFECTS

THIRD EDITION

SID

Series in Display Technology

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Liquid Crystal Displays Addressing Schemes And Electro Optical Effects

Ernst Lueder



Liquid Crystal Displays Addressing Schemes And Electro Optical Effects:

Liquid Crystal Displays Ernst Lueder, 2001 The special feature of the book is the in depth treatment of both the electro optic effects and the addressing schemes of liquid crystal displays elucidating their interdependence After basic explanations readily understandable for students and stimulating for engineers physicists and chemists the reader is gradually led to the latest developments such as vertically aligned and mixed mode TN displays compensation foils multiple line and low power addressing transistor driven LCOS devices with DRAM and SRAM addressing and TFT addressing of transmissive displays with a 92% aperture ratio The results are analytically derived and not merely stated to enhance insight and the capability to tailor displays to individual needs or to perform novel designs Towards this aim the propagation of light with the help of Jones vectors four different characterizations of the state of polarization and the operation as well as the passive and active matrix addressing of all LCDs like nematic polymer dispersed guest host and bistable devices is explained Besides the mainstream twisted and supertwisted nematic LCDs attention is drawn to bistable ferroelectric chiral nematic and modified nematic LCDs as they are most promising for future portable low power systems Tables on display formats and units for the measurement of displays finally render the book suitable as a reference for experts working in the field and as a textbook for universities or display courses The forefront of research is reached by the treatment of plastic substrates the replacement of vacuum processes by less expensive printing and low temperature fabrication of a Si and poly Si TFTS

Liquid Crystal Displays Ernst Lueder, Peter Knoll, Seung Hee Lee, 2022-04-11 LIQUID CRYSTAL DISPLAYS THE NEW EDITION OF THE GOLD STANDARD IN TEACHING AND REFERENCING THE FUNDAMENTALS OF LCD TECHNOLOGIES This book presents an up to date view of modern LCD technology Offering balanced coverage of all major aspects of the field this comprehensive volume provides the theoretical and practical information required for the development and manufacture of high performance energy efficient LCDs The third edition incorporates new technologies and applications throughout Several brand new chapters discuss topics such as the application of Oxide TFTs and high mobility circuits high mobility TFT semiconductors in LCD addressing liquid crystal displays in automotive instrument clusters and touch screen systems and the use of ultra high resolution LCD panels in augmented reality AR and virtual reality VR displays This practical reference and guide Provides a complete account of commercially relevant LCD technologies including their physics mathematical descriptions and electronic addressing Features extensively revised and expanded information including more than 150 pages of new material Includes the addition of Oxide Transistors and their increased mobilities the advances of fringe field switching and an overview of automotive displays Presents quantitative results with full equation sets their derivation and tabular summaries of related information sets

Addressing Techniques of Liquid Crystal Displays Temkar N. Ruckmongathan, 2014-11-03 Unique reference source that can be used from the beginning to end of a design project to aid choosing an appropriate LCD addressing technique for a given application This book will be aimed at design engineers who

are likely to embed LCD drivers and controllers in many systems including systems on chip. Such designers face the challenge of making the right choice of an addressing technique that will serve them with best performance at minimal cost and complexity. Readers will be able to learn about various methods available for driving matrix LCDs and the comparisons at the end of each chapter will aid readers to make an informed design choice. The book will address the various driving techniques related to LCDs. Due to the non linear response of the liquid crystal to external voltages different driving methods such as passive and active matrix driving can be utilized. The associated theoretical basis of these driving techniques is introduced and this theoretical analysis is supplemented by information on the implementation of drivers and controllers to link the theory to practice. Written by an experienced research scientist with over 30 years in R with the basic knowledge and historical background gained from the introductory chapters adequate for understanding the techniques that are presented in the remaining chapters making it a self contained reference.

Liquid Crystal Displays Robert H. Chen, 2011-08-04. An unprecedented look into the basic physics chemistry and technology behind the LCD. Most notably used for computer screens, televisions and mobile phones, LCDs (liquid crystal displays) are a pervasive and increasingly indispensable part of our lives. Providing both an historical and a business minded context, this extensive resource describes the unique scientific and engineering techniques used to create these beautiful, clever and eminently useful devices. In this book, the history of the science and technology behind the LCD is described in a prelude to the development of the device, presenting a rational development theme and pinpointing innovations. The book begins with Maxwell's theory of electromagnetism and the ultimately profound realization that light is an electromagnetic wave and an electromagnetic wave is light. The power of mathematical physics thus was brought to bear upon the study of light and particularly the polarization of light by material bodies including liquid crystals. After a brief historical description of polarization, a physical interpretation provides substance to the mathematical concepts. Subsequent chapters cover Thermodynamics for liquid crystals, The Maier Saupe mean field phenomenological static continuum and dynamic continuum theories, The transistor and integrated circuit, Glass panels and modules, The calculus of variations, The active matrix Semiconductor fabrication, The global LCD business. Additionally, the book illustrates how mathematics, physics and chemistry are put to practical use in the LCDs we use every day. By describing the science from an historical perspective and in practical terms in the context of a device very familiar to readers, the book presents an engaging and unique view of the technology for everyone from science students to engineers, product designers and indeed anyone curious about LCDs.

Series Editor: Anthony C. Lowe, The Lambert Consultancy, Braishfield, UK. The Society for Information Display (SID) is an international society which has the aim of encouraging the development of all aspects of the field of information display. Complementary to the aims of the society, the Wiley SID series is intended to explain the latest developments in information display technology at a professional level. The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics.

E-Paper

Displays Bo-Ru Yang, 2022-08-15 **E PAPER DISPLAYS** An in depth introduction to a promising technology curated by one of its pioneering inventors Electronic paper e paper has one of the most promising futures in technology E paper s potential is unlimited as the displays require extremely low power and imitate the aesthetic of ink on the page This allows e paper devices to have a wider range of viewing angles than traditional LED products and are capable of being viewed in direct sunlight and without any additional power As a result e paper displays create less eye strain have a greater flexibility in their use and have the potential to be used in place of paper for billboard advertising educational applications and transport signage and more In *E Paper Displays* editor Bo Ru Yang and his team of experts present a detailed view into the important technologies involved in e paper displays with a particular emphasis on how this technology s unique properties make possible a wide range of personal and professional electronic products As climate change makes efficient energy use more important than ever e paper can become an essential tool for future products on a large scale As we rely more and more on technology having lightweight devices with long battery life will become critical This book provides engineers and innovators with an introduction to this important technology and shows new pathways for development *E Paper Displays* readers will also find The editor is one of the leading pioneers in this technology Contributions from an international team of experts in e paper technology Descriptions of many advanced display types that rely on different principles than the widely used LCD and OLED types Another innovative title from Wiley **SID Society for Information Displays series** As we enter a new stage in our industrial development *E Paper Displays* is an essential reference for computer engineers and developers as well as innovators and scientists and their students

Liquid Crystals and Display Technology Morteza Sasani Ghamsari, Irina Carlescu, 2020-10-07 Liquid crystals have attracted scientific attention for potential applications in advanced devices Display technology is continuously growing and expanding and as such this book provides an overview of the most recent advances in liquid crystals and displays Chapters cover such topics as nematic liquid crystals active matrix organic light emitting diodes and tetradentate platinum II emitters among others

Fundamentals of Liquid Crystal Devices Deng-Ke Yang, Shin-Tson Wu, 2014-12-03 Liquid Crystal Devices are crucial and ubiquitous components of an ever increasing number of technologies They are used in everything from cellular phones eBook readers GPS devices computer monitors and automotive displays to projectors and TVs to name but a few This second edition continues to serve as an introductory guide to the fundamental properties of liquid crystals and their technical application while explicating the recent advancements within LCD technology This edition includes important new chapters on blue phase display technology advancements in LCD research significantly contributed to by the authors themselves This title is of particular interest to engineers and researchers involved in display technology and graduate students involved in display technology research Key features Updated throughout to reflect the latest technical state of the art in LCD research and development including new chapters and material on topics such as the properties of blue phase liquid crystal displays and 3D liquid crystal displays Explains the link between the fundamental

scientific principles behind liquid crystal technology and their application to photonic devices and displays providing a thorough understanding of the physics optics electro optics and material aspects of Liquid Crystal Devices Revised material reflecting developments in LCD technology including updates on optical modelling methods transmissive LCDs and tunable liquid crystal photonic devices Chapters conclude with detailed homework problems to further cement an understanding of the topic

Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO Shunpei Yamazaki,Tetsuo Tsutsui,2017-02-06 This book highlights the display applications of c axis aligned crystalline indium gallium zinc oxide CAAC IGZO a new class of oxide material that challenges the dominance of silicon in the field of thin film semiconductor devices It is an enabler for displays with high resolution and low power consumption as well as high productivity manufacturing The applications of CAAC IGZO focus on liquid crystal displays LCDs with extremely low power consumption for mobile applications and high resolution and flexible organic light emitting diode OLED displays and present a large number of prototypes developed at the Semiconductor Energy Laboratory In particular the description of LCDs includes how CAAC IGZO enables LCDs with extremely low refresh rate that provides ultra low power consumption in a wide range of use cases Moreover this book also offers the latest data of IGZO The IGZO has recently achieved a mobility of 65.5 cm²/V s and it is expected to potentially exceed 100 cm²/V s as high as that of LTPS A further two books in the series will describe the fundamentals of CAAC IGZO and the application to LSI devices Key features Introduces different oxide semiconductor field effect transistor designs and their impact on the reliability and performance of LCDs and OLED displays both in pixel and panel integrated driving circuits Reviews fundamentals and presents device architectures for high performance and flexible OLED displays their circuit designs and oxide semiconductors as an enabling technology Explains how oxide semiconductor thin film transistors drastically can improve resolution and lower power consumption of LCDs

Physics and Technology of Crystalline Oxide Semiconductor CAAC-IGZO Noboru Kimizuka,Shunpei Yamazaki,2016-10-06 Electronic devices based on oxide semiconductors are the focus of much attention with crystalline materials generating huge commercial success Indium gallium zinc oxide IGZO transistors have a higher mobility than amorphous silicon transistors and an extremely low off state current C axis aligned crystalline CAAC IGZO enables aggressive down scaling high reliability and process simplification of transistors in displays and LSI devices This original book introduces the CAAC IGZO structure and describes the physics and technology of this new class of oxide materials It explains the crystallographic classification and characteristics of crystalline oxide semiconductors their crystallographic characteristics and physical properties and how this unique material has made a major contribution to the field of oxide semiconductor thin films Two further books in this series describe applications of CAAC IGZO in flat panel displays and LSI devices Key features Introduces the unique and revolutionary yet relatively unknown crystalline oxide semiconductor CAAC IGZO Presents crystallographic overviews of IGZO and related compounds Offers an in depth understanding of CAAC IGZO Explains the fabrication method of CAAC IGZO thin films Presents the

physical properties and latest data to support high reliability crystalline IGZO based on hands on experience Describes the manufacturing process the CAAC IGZO transistors and introduces the device application using CAAC IGZO **Amorphous Oxide Semiconductors** Hideo Hosono, Hideya Kumomi, 2022-05-31 AMORPHOUS OXIDE SEMICONDUCTORS A singular resource on amorphous oxide semiconductors edited by a world recognized pioneer in the field In Amorphous Oxide Semiconductors IGZO and Related Materials for Display and Memory the Editors deliver a comprehensive account of the current status of and latest developments in transparent oxide semiconductor technology With contributions from leading international researchers and exponents in the field this edited volume covers physical fundamentals thin film transistor applications processing circuits and device simulation display and memory applications and new materials relevant to amorphous oxide semiconductors The book makes extensive use of structural diagrams of materials energy level and energy band diagrams device structure illustrations and graphs of device transfer characteristics photographs and micrographs to help illustrate the concepts discussed within It also includes A thorough introduction to amorphous oxide semiconductors including discussions of commercial demand common challenges faced during their manufacture and materials design Comprehensive explorations of the electronic structure of amorphous oxide semiconductors structural randomness doping limits and defects Practical discussions of amorphous oxide semiconductor processing including oxide materials and interfaces for application and solution process metal oxide semiconductors for flexible electronics In depth examinations of thin film transistors TFTs including the trade off relationship between mobility and reliability in oxide TFTs Perfect for practicing scientists engineers and device technologists working with transparent semiconductor systems Amorphous Oxide Semiconductors IGZO and Related Materials for Display and Memory will also earn a place in the libraries of students studying oxides and other non classical and innovative semiconductor devices WILEY SID Series in Display Technology Series Editor Ian Sage Abelian Services Malvern UK The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a professional level The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics **Fundamentals and Applications of Colour Engineering** Phil Green, 2023-10-16 FUNDAMENTALS AND APPLICATIONS OF COLOUR ENGINEERING EXPERT OVERVIEW OF THE WORLD OF COLOUR ENGINEERING IN THE 21ST CENTURY WITH NEW UPDATED TECHNOLOGIES AND A MATLAB TOOLBOX Fundamentals and Applications of Colour Engineering provides important coverage on topics that hold the power to extend our knowledge of colour reproduction such as colour measurement and appearance and the methods used with additional discussion of the technologies responsible for reproducing colour across a wide range of devices together with the colour management systems that are used to connect devices and exchange information Composed of 20 chapters the Editor

and his team of expert contributors consider the new ICC 2 architecture an approach that introduces an evolutionary step in colour engineering ensuring wider possibilities for technology The text also considers the emerging applications for advanced colour management such as processing spectral data handling HDR images and the capture and reproduction of material appearance The text is supported by a MATLAB toolbox of relevant functions and data Fundamentals and Applications of Colour Engineering is a useful reference for anyone involved in the reproduction of colour and a strong supplementary course potential for master s degrees with a colour science component Fundamentals and Applications of Colour Engineering includes information on Instruments and methods of colour measurement colorimetry and colour difference and colour appearance Colour spaces and colour encodings and characterizing input devices displays and printers Colour gamut communication and imaging standards high dynamic range imaging and HDR Sensor adjustment in colour management open source tools for colour engineering and colour transform evaluation Supporting active learning with the inclusion of a toolbox of relevant functions and data Fundamentals and Applications of Colour Engineering is an essential resource for students in relevant programs of study and for professionals within colour engineering and reproduction looking to maximize their skill set and keep their skills updated [OLED Display Fundamentals and Applications](#) Takatoshi Tsujimura,2017-02-24 This new edition specifically addresses the most recent and relevant developments in the design and manufacture of OLED displays Provides knowledge of OLED fundamentals and related technologies for applications such as displays and solid state lighting along with processing and manufacturing technologies Serves as a reference for people engaged in OLED research manufacturing applications and marketing Includes coverage of white color filter technology which has become industry standard technology for large televisions *Handbook of Optoelectronics* John P. Dakin,Robert G. W. Brown,2017-10-06 Handbook of Optoelectronics offers a self contained reference from the basic science and light sources to devices and modern applications across the entire spectrum of disciplines utilizing optoelectronic technologies This second edition gives a complete update of the original work with a focus on systems and applications Volume I covers the details of optoelectronic devices and techniques including semiconductor lasers optical detectors and receivers optical fiber devices modulators amplifiers integrated optics LEDs and engineered optical materials with brand new chapters on silicon photonics nanophotonics and graphene optoelectronics Volume II addresses the underlying system technologies enabling state of the art communications imaging displays sensing data processing energy conversion and actuation Volume III is brand new to this edition focusing on applications in infrastructure transport security surveillance environmental monitoring military industrial oil and gas energy generation and distribution medicine and free space No other resource in the field comes close to its breadth and depth with contributions from leading industrial and academic institutions around the world Whether used as a reference research tool or broad based introduction to the field the Handbook offers everything you need to get started The previous edition of this title was published as Handbook of Optoelectronics 9780750306461 John P

Dakin PhD is professor emeritus at the Optoelectronics Research Centre University of Southampton UK Robert G W Brown PhD is chief executive officer of the American Institute of Physics and an adjunct full professor in the Beckman Laser Institute and Medical Clinic at the University of California Irvine

3D Displays Ernst Lueder, 2012-01-30 This book addresses electrical engineers physicists designers of flat panel displays FDPs students and also scientists from other disciplines interested in understanding the various 3D technologies A timely guide is provided to the present status of development in 3D display technologies ready to be commercialized as well as to future technologies Having presented the physiology of 3D perception the book progresses to a detailed discussion of the five 3D technologies stereoscopic and autostereoscopic displays integral imaging holography and volumetric displays and Introduces spatial and temporal multiplex for the two views needed for stereoscopic and autostereoscopic displays Outlines dominant components such as retarders for stereoscopic displays and fixed as well as adjustable lenticular lenses and parallax barriers for auto stereoscopic displays Examines the high speed required for 240 Hz frames provided by parallel addressing and the recently proposed interleaved image processing Explains integral imaging a true 3D system based on the known lenticulars which is explored up to the level of a 3D video projector using real and virtual images Renders holographic 3D easier to understand by using phasors known from electrical engineering and optics leading up to digital computer generated holograms Shows volumetric displays to be limited by the number of stacked FPDs and Presents algorithms stemming from computer science to assess 3D image quality and to allow for bandwidth saving transmission of 3D TV signals The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a professional level The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics

Flat Panel Display Manufacturing Jun Souk, Shinji Morozumi, Fang-Chen Luo, Ion Bitu, 2018-07-23 An extensive introduction to the engineering and manufacture of current and next generation flat panel displays This book provides a broad overview of the manufacturing of flat panel displays with a particular emphasis on the display systems at the forefront of the current mobile device revolution It is structured to cover a broad spectrum of topics within the unifying theme of display systems manufacturing An important theme of this book is treating displays as systems which expands the scope beyond the technologies and manufacturing of traditional display panels LCD and OLED to also include key components for mobile device applications such as flexible OLED thin LCD backlights as well as the manufacturing of display module assemblies Flat Panel Display Manufacturing fills an important gap in the current book literature describing the state of the art in display manufacturing for today's displays and looks to create a reference the development of next generation displays The editorial team brings a broad and deep perspective on flat panel display manufacturing with a global view spanning decades of experience at leading institutions in

Japan Korea Taiwan and the USA and including direct pioneering contributions to the development of displays The book includes a total of 24 chapters contributed by experts at leading manufacturing institutions from the global FPD industry in Korea Japan Taiwan Germany Israel and USA Provides an overview of the evolution of display technologies and manufacturing Treats display products as systems with manifold applications expanding the scope beyond traditional display panel manufacturing to key components for mobile devices and TV applications Provides a detailed overview of LCD manufacturing including panel architectures process flows and module manufacturing Provides a detailed overview of OLED manufacturing for both mobile and TV applications including a chapter dedicated to the young field of flexible OLED manufacturing Provides a detailed overview of the key unit processes and corresponding manufacturing equipment including manufacturing test repair of TFT array panels as well as display module inspection repair Introduces key topics in display manufacturing science and engineering including productivity quality factory architectures and green manufacturing Flat Panel Display Manufacturing will appeal to professionals and engineers in R D departments for display related technology development as well as to graduates and Ph D students specializing in LCD OLED other flat panel displays

Quantum Dot Display Science and Technology Paul Alivisatos, Eunjoo Jang, Ruiqing Ma, 2025-07-08 COMPREHENSIVE REFERENCE PRESENTING ALL ASPECTS OF QUANTUM DOT BASED DISPLAY TECHNOLOGIES IN FOUR PARTS SUPPORTED WITH PEDAGOGICAL FEATURES Quantum Dot Display Science and Technology presents all aspects of quantum dot QD based display technologies divided into four general topic areas the basic science of quantum dots QD photoluminescent technologies QD electroluminescent technologies and other display related QD technologies Composed of 14 chapters this book includes a list of pedagogical features such as tables illustrations process flow charts and more to provide active learning for the reader This book also includes information on future quantum dot displays and the major milestones in the field Quantum Dot Display Science and Technology discusses topics including The basic physics and photophysics of QD explaining why QD can offer better color and higher brightness QD material systems and compositional families as well as principles and practices of QD synthesis Quantum dot enhancement film and quantum dot color conversion for LCDs OLEDs and LEDs Quantum dot electroluminescent displays and QD LED panel processes based on ink jet printing and lithography QD for lighting and photodetector applications Future outlook for QD displays Published in partnership with the Society for Information Display SID Quantum Dot Display Science and Technology is the perfect resource for updated information on quantum dots and their applications for professionals working in displays consumer electronics and product design and development

Liquid Crystals Birendra Bahadur, 1990-09 Types and classification of liquid crystals Theories of liquid crystals Dynamic scattering mode LCDs

Lytotropic Liquid Crystals Ingo Dierking, Antônio Martins Figueiredo Neto, 2024-07-12 This book aims to review the field of lyotropic liquid crystals from amphiphilic to colloidal systems bridging the gap between the two worlds of lyotropics and thermotropics by showing that many of the features observed in standard

thermotropic liquid crystals may also be observed in lyotropic systems and vice versa Indeed for a long time lyotropic liquid crystals have been overshadowed by their thermotropic counterparts mainly due to the potential for application of the latter in the display industry This picture has somewhat shifted over the last decade with numerous novel lyotropic systems having been discovered and formulated bringing to light their importance in wider scientific research For example the understanding of viruses forming self assembled ordered phases has largely increased as mineral liquid crystals and clays have experienced a renaissance leading to fundamental research and work on structure formation in nanotechnology Similarly nano rods nano wires nanotubes and 2D materials like graphene oxide and others have been shown to exhibit liquid crystalline behaviour which may be exploited in self assembly drug delivery or biosensors Cellulose nanocrystals have become an important and popular field of research The self assembly of short chain DNA fragments has led to liquid crystal behaviour previously thought to be impossible Chromonics were shown to exhibit fascinating physical properties and the combination of active fluids with liquid crystals has opened a whole new field of research to be explored living liquid crystals

Flexible Flat Panel Displays Darran R. Cairns,Dirk J. Broer,Gregory P. Crawford,2023-02-13 Flexible Flat Panel Displays A complete treatment of the entire lifecycle of flexible flat panel displays from raw material selection to commercialization In the newly revised Second Edition of Flexible Flat Panel Displays a distinguished team of researchers delivers a completely restructured and comprehensive treatment of the field of flexible flat panel displays With material covering the end to end process that includes commercial and technical aspects of the technology the editors have included contributions that introduce the business marketing entrepreneurship and intellectual property content relevant to flexible flat panel displays This edited volume contains a brand new section on case studies using the Harvard Business School format that discusses current and emerging markets in flexible displays such as an examination of the use of electronic ink and QD Vision in commercial devices From raw material selection to device prototyping manufacturing and commercialization each stage of the flexible display business is discussed in this insightful new edition The book also includes Thorough introductions to engineered films for display technology and liquid crystal optical coatings for flexible displays Comprehensive explorations of organic TFT foils metallic nanowires adhesives and self healing polymer substrates Practical discussions of flexible glass AMOLEDs cholesteric displays and electronic paper In depth examinations of the encapsulation of flexible displays flexible batteries flexible flat panel photodetectors and flexible touch screens Perfect for professionals working in the field of display technology with backgrounds in science and engineering Flexible Flat Panel Displays is also an indispensable resource for professionals with marketing sales and technology backgrounds as well as senior undergraduates and graduate students in engineering and materials science

Optical Interference Coatings Norbert Kaiser,Hans K. Pulker,2013-06-29 Interference coatings are an essential part of modern optics This book is designed to give a concise but complete overview of the field with contributions written by leading experts in the various areas Topics include design materials film growth deposition

including large area characterization and monitoring and mechanical stress The authors also describe applications in astronomy microcomponents DUV VUV EUV X ultrafast optics displays and ultrasensitive fluorescence Furthermore laser resistant coatings and coatings for free electron lasers and plastic optics are covered The book concludes with chapters on photonic structures as interference devices and on the brilliant world of natural coatings

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Liquid Crystal Displays Addressing Schemes And Electro Optical Effects Introduction

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