Active Matrix Driving and Circuit Simulation

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1. Introduction

This chapter explains the principle of active matrix driving which is the most popular driving method used in current liquid crystal displays (LCDs). It then discusses issues that designers must overcome to avoid the malfunctioning and introduces a liquid crystal model for conducting circuit simulations to optimize the circuit parameters efficiently.

1.1 Equivalent circuit of a pixel in LCDs

The equivalent circuit of a pixel operated by active matrix driving is shown in Fig. 1. Data lines are connected to a data driver for generating the signal pulses for the picture data. Scan lines are connected to a scan driver for generating the scan pulses which enable the addressing driving. Vsig and Vg are applied to the data lines and scan lines, respectively. The thin film transistor (TFT) has three terminals of MOS transistors, and each terminal gate, drain, and source is connected to a scan line, a data line, and a pixel electrode, respectively. Cgs means the parasitic capacitance between the gate and source terminal in the TFT. Liquid crystal is injected into the gap between the pixel electrode and the counter backplane electrode, and it forms a liquid crystal cell capacitance (Clc). Clc is a variable capacitor that changes value according to the applied voltage between the pixel electrode and a counter backplane electrode. The voltage of the pixel electrode and counter backplane electrode are denoted by Vpix and Vcom, respectively. The storage capacitor is denoted Csc, and it is connected in parallel to Clc. Its function is to hold charges on a pixel electrode while the TFT is switched off.

1.2 Timing chart for each signal pulse

Fig. 2 shows the wave forms applied to each bus line and electrode. The period during which the pixel electrode voltage (Vpix) is higher than the counter electrode voltage (Vcom) is called the "plus frame" (Fig.2 (a)), whereas the period during which Vpix is lower than Vcom is called the "minus frame" (Fig.2 (b)). The plus and minus frames are switched every frame period (Tf).

When the voltage of the gate terminal connecting to the scan line rise to a high level, the resistance between the drain and source terminals becomes very low (Ron). As a result, electrical charges flow into the pixel electrode from the data line till the voltage of the pixel electrode achieves the voltage of the data line during the writing time (Tw). This process is called the "Charge Process". When the voltage of the scan line starts to drop, the pixel electrode voltage shows a negative shift ΔVfd because of the coupling with the gate terminal

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Applied Science & Technology Index ,1996 **Accelerated Circuit Simulation Via Faber Series and** Hierarchical Matrix Techniques Ying-chi Li (M. Phil.),2013 ACCELERATED CIRCUIT SIMULATION Ying-Chi Li,□□ □,2017-01-26 This dissertation Accelerated Circuit Simulation via Faber Series and Hierarchical Matrix Techniques by Ying chi Li was obtained from The University of Hong Kong Pokfulam Hong Kong and is being sold pursuant to Creative Commons Attribution 3 0 Hong Kong License The content of this dissertation has not been altered in any way We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation All rights not granted by the above license are retained by the author Abstract This dissertation presents two circuit simulation techniques to accelerate the simulation time for time domain transient circuit simulation and circuit thermal analysis Matrix exponential method is one of the state of the art methods for millionth order time domain circuit simulations due to its explicit nature and global stability. The matrix exponential is commonly computed by Krylov subspace methods which become inefficient when the circuit is stiff namely when the time constants of the circuit differ by several orders The truncated Faber series is suitable for accurate evaluation of the matrix exponential even under a highly stiff system matrix arising from practical circuits Experiments have shown that the proposed approach is globally stable highly accurate and parallelizable and avoids excessive memory storage demanded by Krylov subspace methods Another major issue in circuit simulation is thermal circuit analysis The use of Hierarchical matrix H matrix in the efficient finite element based FE based direct solver implementation for both steady and transient thermal analyses of three dimensional integrated circuits 3D ICs is proposed H matrix was shown to provide a data sparse way to approximate the matrices and their inverses with almost linear space and time complexities. This is also true for FE based transient analysis of thermal parabolic partial differential equations PDEs Specifically the stiffness matrix from a FE based steady and transient thermal analysis can be represented by H matrix without approximation and its inverse and Cholesky factors can be evaluated by H matrix with controlled accuracy This thesis shows that the memory and time complexities of the solver are bounded by O k 1NlogN and O K 1 DEGREES2Nlog log DEGREES2N respectively for very large scale thermal systems where k1 is a small quantity determined by accuracy requirements and N is the number of

unknowns in the system Numerical results validate and demonstrate the effectiveness of the proposed method in terms of predicted theoretical scalability DOI $10\ 5353\ th_b5090009$ Subjects Integrated circuits Data processing

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