Annotated Bibliography Assignment

Source 1

Bibliographic Citation

Summary
This article is divided into two parts: a section for basic monitor display troubleshooting, and a section describing the basic functionality of cathode ray tubes (CRTs). The main purpose of this article is to provide a basic understanding of how the CRT, and its components, display an image on a monitor. This article aims to separate the three main components that allow a computer monitor to work (the monitor itself, the display card, and the drivers), and give its reader basic troubleshooting knowledge, along with a good understanding of the driving force behind the monitor (the CRT).

Evaluation
This article was written to educate the general public, so its explanations of the CRT, its components, and its functionality are in relatively simple terms. This is extremely useful to my report, considering that I will be targeting the same audience. Although my report will be going much more in-depth on the technological aspects, this article provides a good bridge between a practical summary and a full technological description. It is written in a clear and professional manner, and is part of a magazine that is devoted to proving objective reports and tutorials on computer technology. The content seems both valid and trustworthy.

Source 2

Bibliographic Citation

Summary
This book is dedicated to bridging the gap between what is learned in engineering courses, and the actual products to which those concepts apply. A multitude of different, common audio and video devices are described in great detail from history to circuitry, to mathematical theory. This book shows in step-by-step detail how the equations and concepts emphasized in college engineering classes are present in consumer devices. Diagrams are included for each product discussed, as well as a brief, summarized explanation free of engineering-specific terms or equations.
Evaluation

The information in this book provides a transition (albeit a difficult one for an undergraduate) between simple discussion of such products and their functionality, to technical specifics of all their aspects. This book has a section devoted to the color (and monochrome) CRT, that provides a good basic description of its makeup, and an extremely detailed explanation of its functionality. Since the target audience of this book is a fully educated electrical and/or computer engineer, a good deal of the information is too specific for me to use. However, the principles behind the process are well-described, and will be very valuable in my report. The author himself is an engineer, and the book is published by a respectable company; validity of the content is not an issue.

Source 3

Bibliographic Citation

Summary

As its title suggests, this book is dedicated to the engineering of video display devices. Complete explanations of monitors and their components are performed with precision, detail and accuracy. The goal of this book is to provide those who already possess engineering knowledge with the fundamentals behind display devices, so that they may be able to design their own. The nature, construction, and operation of each device (and its subsequent parts) are described in great detail.

Evaluation

Because at the core of the video display device lies the monitor, and at the core of the monitor lies the CRT, it is clear that this book provides a more than adequate description of the cathode ray tube. In fact, two chapters of the book are dedicated to the CRT and all of its aspects. This text is much more focused on the concepts and general makeup of the CRT, rather than specific design schematics. This is far more suited towards my report, because I will be focusing on general technical concepts of its construction, rather than the specific design of the countless types of CRTs that exist. The content is rather contemporary and, although the CRT is an old technology, this book describes it in its most up to date and efficient environment.

Source 4

Bibliographic Citation
Summary

This book is organized into two main sections: components of a display system (CRT), and the evaluation of a CRT. The point of this book is to give a working description of every component involved in creating a monitor display system, and complete a detailed evaluation of each component. The component section focus on three main areas: the CRT, the monitor hardware, and the monitor software. The evaluation section includes restrictions, requirements, and functions of different CRTs, as well as a CRT survey.

Evaluation

About a third of this book is devoted to the build of the CRT and the functionality of its components. It is an extremely great resource for an in-depth look at the makeup of many different kinds of CRTs. Since the core of my report will be the technical assembly (and subsequent functionality) of the CRT, this book will provide an invaluable guideline for the structure of my report. Although the content in the evaluation section is outdated, the content dealing with the CRT components still holds relevance; the make of the CRT has not changed much over the years, only its use in modern display has.

Source 5

Bibliographic Citation


Summary

This book is dedicated to color science (colorimetry) and its place in video display systems. An introduction to colorimetry is given in the first chapter, and each following chapter discusses the color science surrounding various display devices (cameras, televisions, computer monitors, etc.). The analyses performed are in very specific, and for the most part mathematic, terms. Very brief descriptions of the display technology are given, but the main focus is their use of color.

Evaluation

The content in this book is meant for an audience who is already familiar with color science theory and mathematics, so simple explanations and descriptions are scarce. Fortunately, one such description exists in the chapter on CRTs. A good paragraph on the color science of CRTs is given in general terms. Although most of the information is too advanced to be of use in my report, the brief explanation of color use in CRTs is of great importance. The difference between a color and monochrome CRT could not be described without this information, and it is therefore crucial to my report on the color CRT.