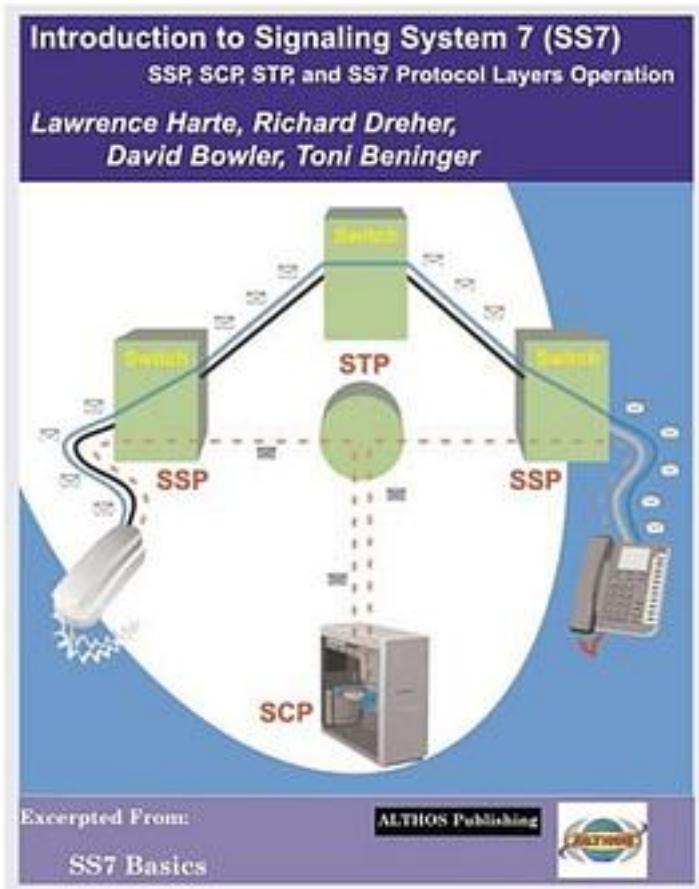


Introduction to SS7



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著者:Lawrence Harte

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This introductory book explains the basic operation of the signaling system 7 (SS7). SS7 is the standard communication system that is used to control public telephone networks. This book will help the reader gain an understanding of SS7 technology, network equipment, and overall operation. It covers the reasons why SS7 exists and is

necessary, as well as step-by-step procedures that describe the actions that occur in the network. The SS7 common channel signaling has been standardized since the 1970's and is used by almost all public telephone companies throughout the world. If you are involved in telecommunications systems, SS7 is part of your system. This book is the perfect solution for those involved or interested in the operation and control of public telephone systems. The use of SS7 provides the ability to offer enhanced services and telephone network features. Traditional signaling systems cannot provide the level of sophistication required to deliver much more than basic telephone service. This book is intended to serve as a brief introduction to SS7, allowing the reader to gain an overall appreciation and understanding of its structure and impact. It covers the reasons why SS7 exists and is necessary, as well as step-by-step procedures that describe the actions that occur in the network when SS7 functionality is easy-to-understand manner, for the technical and the non-technical reader alike. Some of the most important topics featured are: - SS7 network architecture including SSP, SCP, and STP operations. - Common Control Packet Switching. - Call processing control (ISUP) and broadband telephony applications (BISUP). - Message Transfer Part (MTP) - Mobile application part (MAP)- Transaction capabilities part (TCAP). - Operations, Maintenance and Administration (OMAP). - Telephony Applications

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