

STEVEN M. KAPLAN

Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

WILEY ELECTRICAL AND ELECTRONICS ENGINEERING DICTIONARY

Steven M. Kaplan Lexicographer



IEEE PRESS



A JOHN WILEY & SONS, INC., PUBLICATION

DOCKET

Δ

Δ

RM

Find authenticated court documents without watermarks at docketalarm.com.

Copyright © 2004 by John Wiley & Sons, Inc. All rights reserved.

Published by John Wiley & Sons, Inc., Hoboken, New Jersey. Published simultaneously in Canada.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as permitted under Section 107 or 108 of the 1976 United States Copyright Act, without either the prior written permission of the Publisher, or authorization through payment of the appropriate per-copy fee to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, MA 01923, 978-750-8400, fax 978-646-8600, or on the web at www.copyright.com. Requests to the Publisher for permission should be addressed to the Permissions Department, John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, (201) 748-6011, fax (201) 748-6008.

Limit of Liability/Disclaimer of Warranty: While the publisher and author have used their best efforts in preparing this book, they make no representation or warranties with respect to the accuracy or completeness of the contents of this book and specifically disclaim any implied warranties of | merchantability or fitness for a particular purpose. No warranty may be created or extended by sales representatives or written sales materials. The advice and strategies contained herein may not be suitable for your situation. You should consult with a professional where appropriate. Neither the publisher nor author shall be liable for any loss of profit or any other commercial damages, including but not limited to special, incidental, consequential, or other damages.

For general information on our other products and services please contact our Customer Care Department within the U.S. at 877-762-2974, outside the U.S. at 317-572-3993 or fax 317-572-4002.

Wiley also publishes its books in a variety of electronic formats. Some content that appears in print, however, may not be available in electronic format.

Library of Congress Cataloging-in-Publication Data is available.

Kaplan, Steven M.

Wiley Electrical and Electronics Engineering Dictionary

ISBN 0-471-40224-9

Printed in the United States of America.

1098765432

DOCKET

LARM

Find authenticated court documents without watermarks at docketalarm.com.

subnanosecond

and start out
be assumed to
ast assumed to
ast ashield to the
ast ashield to the
ast ashield to
ast ashield to

and supported

carrier.

If a larger chan

i Cless Seriori Collect Gertrick

2. Also get

a der zustan tery: in Olifie

ere is a subside

E Prestary pro-

contres, which a biguency

L An english s. the mini sub-2, An insertion

Attended and

Arrest Francisco Arrest States Instatus

niatore 2000 nr. 1 3 Sector

tara jana 10,000 L. A. park charte, r. application

DOCKE.

of 44.1, as the latter has been divided by 2. Also spelled

submultiple.

subnanosecond A time interval shorter than a nanosecond. Also spelled sub-nanosecond.

subnet Abbreviation of subnetwork.

subnet mask Abbreviation of subnetwork mask.

subnetwork A network within a larger network. For example, the Internet is a worldwide network of interconnected autonomous networks, each of which is a subnetwork. Its abbreviation is subnet. Also spelled sub-network.

subnetwork mask A bit combination which identifies which portion of an IP address corresponds to the network or subnetwork, and blocks out the rest. For example, a network may use the same values in the first three address fields of a four field address such as WWW.XXX.YYY.ZZZ, and block out, or mask, all but the ZZZ portion, since it is the only one that will vary. Its abbreviation is subnet mask. Also spelled sub-network mask. Also called address mask, or network mask.

subnotebook Same as subnotebook computer. Also spelled sub-notebook.

subnotebook computer A computer which is lighter and smaller than a notebook computer, but larger than a handheld computer. Such a computer usually weighs less than one kilogram, and generally features computing power similar to a desktop model. Also spelled sub-notebook computer. Also called subnotebook, or mini-notebook.

subpanel A panel which forms part of a larger panel. For instance, that which provides additional controls. Also spelled sub-panel.

subprogram A part, such as a subroutine or module, of a larger program. For example, a subroutine can be invoked by a program to perform a given task, then return control to the invoking program. Also spelled **sub-program**.

subroutine Within a computer program, a small group of instructions which perform a given task. Also spelled subroutine. Also called routine (1), function (3), or procedure (2).

Hubschema A subset within a schema. It may consist, for instance, of a database description from the perspective of a specific application, or the part of a database pertaining to a given department within an enterprise. Also spelled subschema.

such as CATV. 2. To authorize an entity to send information. For example to agree to become part of a mailing list.

Subscriber A user or other entity which has been authorized to utilize or receive one or more services. For example, a user who has paid for access to the Internet, telephone service, or satellite channels.

Sabscriber Identity Module Same as SIM.

Subscriber Identity Module card Same as SIM card.

mbscriber line A pair of wires, or its equivalent, extending from a telephone central office to the premises of a customer. Also called **subscriber loop**, **loop** (7), **local loop**, **local line**, or **line loop**.

Scriber line interface circuit A circuit, usually in the form of a chip, that converts a two-wire subscriber line siginto a four-wire signal, and vice versa, at a central office, PBX, or the like, and which in addition performs other functions such as line supervision. Its acronym is SLIC.

abscriber loop Same as subscriber line.

subscription television Same as subscription TV.

Redscription TV Abbreviation of subscription television. Also called pay TV. 1. A service in which payment is made and premium channels. A decoder box is usually necessary for such programming. **2.** Any TV service which requires payment. These include **subscription TV** (1), basic satellite, premium cable, and so on.

subset A set which is contained within or forms part of another larger set.

subsonic Pertaining to, generating, sensitive to, or utilizing subsonic frequencies. Also spelled sub-sonic. Also called infrasonic.

subsonic frequency A frequency below the range that humans can hear. That is, below about 20 Hz. Also spelled sub-sonic frequency. Also called subaudible frequency, or infrasonic frequency.

subsonic phenomena Phenomena occurring within, or pertaining to subsonic frequencies. Also spelled sub-sonic phenomena. Also called infrasonic phenomena.

- substation A station which is a part of a larger station, which supplements a larger station, or which is located between larger stations or between a larger station and another location. For example, a station between a power station and a group of homes. Also spelled sub-station.
- substitution method 1. A method of measurement in which an unknown quantity is determined via the replacement with known quantities which have the same effect as that which has been replaced. For example, the determination of an unknown resistance by placing a resistor with a known value in its place. 2. The substitution of a component or device with an equivalent one, for testing, troubleshooting, or performing repairs.
- substrate 1. The base layer, or other surface upon which something is deposited, etched, attached, or otherwise prepared or fabricated. A substrate also provides physical support and insulation. For example, the base film of a magnetic tape, or the plastic base of a compact disc. 2. A substrate (1) utilized in the manufacturing of circuits and microcircuits. Such a substrate may be made, for instance, of ceramic, plastic, glass, or a semiconductor material. An active substrate has active elements, such as transistors, formed directly on it, while passive substrates have components mounted upon them.

substring A subset within, or portion of, a string. Also spelled sub-string.

subsystem Also spelled sub-system. 1. A system which is a part of, or assists, a larger system. Cache memory, for instance, is a specialized high-speed storage subsystem. 2. A system which is subordinate to another system.

subterranean Located or utilized beneath the surface of the earth.

subtitles In TV programming, and similar multimedia presentations such as films presented in theaters, the providing of text, and symbols such as \mathcal{A} , which are intended to accurately transcribe the dialogue and describe the sounds of that being presented. A decoder is not necessary to show subtitles, as the displayed text and symbols are always superimposed on the viewed image. Useful, for instance, for those with reduced hearing. This contrasts with closedcaptioning, which requires a decoder to appear on-screen.

subtracter Same as subtractor.

subtractor circuit Same as subtractor. Also spelled subtractor circuit.

subtractive color A color formed by a subtractive mixture.

subtractive color process A method of producing colors through a subtractive mixture. Also called subtractive process, or subtractive synthesis.

subtractive color system A system of combining subtractive

Find authenticated court documents without watermarks at docketalarm.com

755