

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

VANGUARD PRODUCTS GROUP, INC., D/B/A VANGUARD PROTEX
GLOBAL

Petitioner

v.

INVUE SECURITY PRODUCTS, INC.

Patent Owner

Case No.: IPR2020-00069
U.S. Patent No. 10,043,358

MARTIN H. WEIK, FIBER OPTICS STANDARD DICTIONARY (1989)

EXHIBIT 2005

Fiber Optics Standard Dictionary

Second Edition

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VAN NOSTRAND REINHOLD
New York

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Library of Congress Catalog Card Number 89-30814
ISBN 0-442-23387-6

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Printed in the United States of America

Van Nostrand Reinhold
115 Fifth Avenue
New York, New York 10003

Van Nostrand Reinhold International Company Limited
11 New Fetter Lane
London EC4P 4EE, England

Van Nostrand Reinhold
480 La Trobe Street
Melbourne, Victoria 3000, Australia

Nelson Canada
1120 Birchmount Road
Scarborough, Ontario M1K 5G4, Canada

16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Library of Congress Cataloging-in-Publication Data

Weik, Martin H.

Fiber optics standard dictionary / Martin H. Weik.—2nd ed.
p. cm.

Rev. ed. of: Fiber optics and lightwave communications standard
dictionary.

ISBN 0-442-23387-6

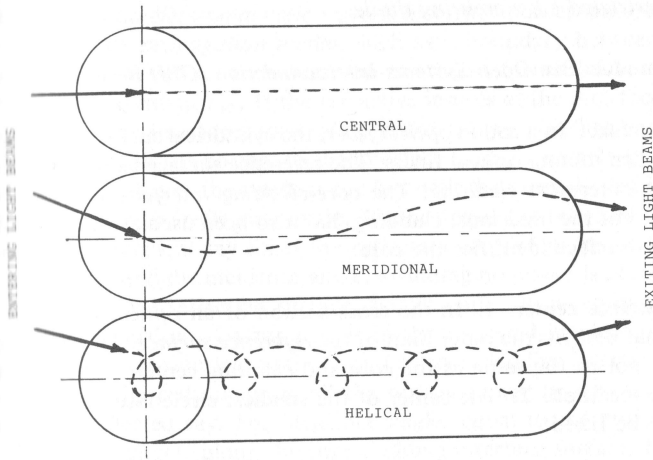
1. Optical communications—Dictionaries. 2. Fiber optics-
Dictionaries. I. Weik, Martin H. Fiber optics and lightwave
communications dictionary. II. Title.

TK5102.W45 1989

621.36'92'0321—dc19

89-30814

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R-2. Some of the possible ray trajectories for graded-index optical fibers.

Receiver. See *fiber optic receiver; optical receiver; optoelectronic receiver; PIN-FET integrated receiver.*

Receiver-information descriptor. A unique descriptor from which information about a receiver can be determined, such as the manufacturer, terminal equipment installation, system design application (*single-mode, multimode*), performance specifications, *detector type (APD, PIN photodiode)*, temperature controller, and manufacturer product change designation (issue, revision).

Receiver input. See *maximum receiver input.*

Receiver maximum input power. See *optical maximum input power.*

Receiver optical connector. The *optical connector* provided at the input of an *optical receiver* that is attached to the receiver *pigtail*. The receiver optical connector description should include the manufacturer, type (biconic, FC, etc.) model number, classification (*multimode, single-mode*), and mating connector model number.

Receiver optical sensitivity. The worst-case value of *input optical power (dBm)* coupled into a receiver, as measured on the line side of the receiver connector under specified *standard or extended operating conditions*, that is necessary to achieve the manufacturer-specified *bit-error ratio (BER)* as measured under standard procedures. The worst-case value combines manufacturing, temperature, aging, *extinction ratio*, and rise-fall time variations in a worst-case fashion. The receiver sensitivity should not include power penalties associated with *dispersion or reflection*.

Recording. See *fiberscopic recording.*