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HANDBOOK OF OPTICAL INTERCONNECTS



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Published in 2005 by
CRC Press
Taylor & Francis Group
600 Broken Sound Parkway NW, Suite 300
Boca Raton, FL 33487-2742

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CRC Press is an imprint of Taylor & Francis Group

No claim to original U.S. Government works
Printed in the United States of America on acid-free paper
10 9 8 7 6 5 4 3 2 1

International Standard Book Number-10: 0-8247-2441-0 (Hardcover)
International Standard Book Number-13: 978-0-8247-2441-1 (Hardcover)
Library of Congress Card Number: 2004081862

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Library of Congress Cataloging-in-Publication Data

Handbook of optical interconnects / edited by Shigeru Kawai.
p. cm. — (Optical engineering ; v. 100)
Includes bibliographical references and index.
ISBN 0-8247-2441-0 (alk. paper)
I. Optical interconnects—Handbooks, manuals, etc. I. Kawai, Shigeru, 1958—II. Optical engineering (Masood Dekker, Inc.) ; v. 100.

TA3668.H36 2005
621.3827—dc22

2004081862

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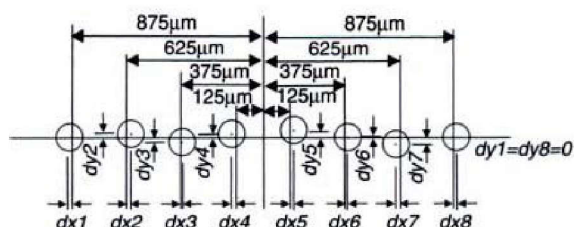
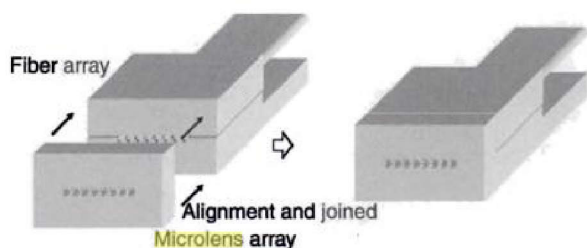


Figure 9.25 Schematic diagram of eccentricity in 250- μm pitch arrayed fiber.

the light going out of the fibers must be collimated using microlenses to improve the efficiency. A **microlens** array in which microlenses are arrayed accurately in the same way as in a fiber array is shown in Figure 9.26.

9.6.2.1 Types of **Microlens** Arrays

Microlens arrays include graded index lenses fabricated by ion exchange of glass¹¹; lenses obtained by transferring a resist pattern that exhibits a spherical shape by resist reflow



a) Fiber collimator array made from fiber array and **microlens** array.



b) Schematic view of coupling optics in a pair of fiber collimator arrays.

Figure 9.26 Schematic view of coupling optics in a pair of fiber collimator arrays.