

TABLE OF CONTENTS

An Introduction to Lasers and Laser Systems	1
Wave Guides and Thin Films	17
Measurement of and by Lasers	23
Laser Chemistry	27
Applications in Environmental Pollution	41
Laser Material Processing – Laser Metal Working	49
In the Construction Field	75
Some Aspects of Information Handling	83
Holography	99
Laser-induced Thermonuclear Fusion	113
Lasers in the Military	121
The Laser in the Law and Order Program	127
Laser Safety	133
The New Laser Biology	155
Laser in Medicine	173
Laser Dentistry	199
Training and Retraining in Laser Technology	203
Laser Art and Music	209
Laser Photography	225
Social Conscience of the Laser or The Laser also Goes into Battle for the Good-of-Man	233
The Future	237
Appendix	241
Author Index	311
Subject Index	317