



Technical Diver

ENCYCLOPEDIA



Tom Mount

"IANTD - The Leader in Diver Education"

Table of Content

About The Authors	iii
Chapter 1 – The Leading Causes Of Accidents In Technical Diving	1
Chapter 2 – Equipment Configuration	8
Chapter 3 – Dive Planning	39
Chapter 4 – Dive Technique	70
Chapter 5 – Respiration, Circulation And Breath Control	74
Chapter 6 – The Effects Of Drugs On Diving	90
Chapter 7 – Oxygen And Its Effects On The Diver	96
Chapter 8 – Inert Gas Narcosis	104
Chapter 9 – Carbon Dioxide Retention	112
Chapter 10 – Carbon Monoxide – The Black Gas	121
Chapter 11 – High Pressure Nervous Syndrome	125
Chapter 12 – Combining Theories For Decompression Safety	137
Chapter 13 – Psychological And Physical Fitness For Technical Diving	148
Chapter 14 – Operational Safety	161
Glossary Of Abbreviations And Selected Terms	179
Tables And Charts	185

Cover photo credits:

Front cover: Tom and Patti Mount on the *Pilotfish* submarine in Bikini Atoll, Marshall Islands.

Back cover: Topside photo by Tom Mount of Patti Mount gearing up for a Trimix dive.

Akumal cave photo by Steve Gerrard of Aquatech/Villas de Rosa.

Riches of the wreck of the *Cazador*. Photo courtesy of Key West Divers, Inc.

Exumas Wall, Bahamas photo of Patti Mount by Tom Mount while diving with the liveaboard *Bottom Timer* of Ft. Lauderdale, FL.