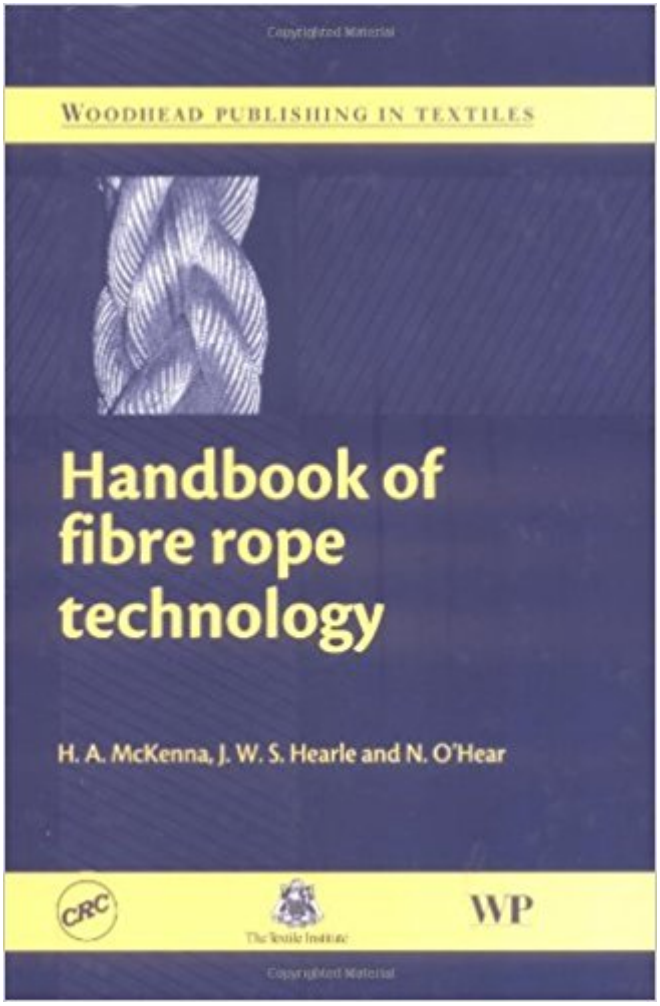
# Handbook Of Fibre Rope Technology



## Synopsis

Modern ropes made from natural or synthetic fibres have applications from the conventional to the more unusual systems such as anchoring off-shore rigs safely to the sea bed, keeping a building upright during an earthquake, and mountain climbing. For dependable rope performance, their manufacture requires a thorough knowledge of mechanics, structures, and material properties. Written in a style that reads fluidly from cover to cover, the Handbook of Fibre Rope Technology is the first book to chronicle the history and development of the rope fiber industry, from ancient times to the present. The authors use photographs, charts, and cross-sectional illustrations to analyze the structural and chemical properties of popular materials, including natural fibers, polymers, and aramid fibers. They present the terminology, relationships, and calculations used to determine mechanical and physical properties, including strength, tension, and durability of different rope structures. The authors also present details of production and termination, visual signs of wear, and several practical testing techniques used to determine the lifespan of different ropes. Reinforcing all of the principles discussed in this book with a detailed account of modern uses, a discussion of today's market standards and conditions, and 12 in-depth case studies, the Handbook of Fibre Rope Technology is an outstanding technical resource that will assist in the design, selection, use, inspection, testing, and marketing of natural and synthetic fiber ropes.

## Book Information

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## Customer Reviews

The handbook is a unique resource, covering not only the history of fiber rope technology, but also

the modern material properties and construction of natural and manmade fiber ropes. … [R]ecommended for college and university libraries supporting Engineering, Physics, Industrial Design, Maritime and Defense programs. - E-Streams, Vol. 8, No. 8, 2005

Henry McKenna is President of Tension Technology International which is based in the USA and UK. He has extensive experience in rope manufacturing techniques, technology of fibre materials, rope handling machinery and systems design, accident investigations and industry sales and distribution.J. W. S. Hearle, M.A., Sc.D., Ph.D., C.Text F.T.I (Hon.), F.Inst.P, is Emeritus Professor of Textile Technology in the University of Manchester, UK.Nick OÃ¢â ¬â„¢Hear is Technical Director of Tension Technology International. He has more than 20 yearsÃ¢â ¬â„¢ experience working with ropes and cables and has developed new electro-mechanical cables for defence and offshore applications and is currently working on non-destructive testing methods for ropes by means of fibre optics and Brillouin scattering. --This text refers to an alternate Hardcover edition.

Rope (Scientists in the Field Series) Moon Rope/Un lazo a la luna Knots on a Counting Rope (Reading Rainbow Books)