



# Ergonomics and Safety in Hand Tool Design

*Charles A. Catcha*

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# Ergonomics and Safety in Hand Tool Design

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## **Ergonomics and Safety in Hand Tool Design** Charles A. Cacha

This book focuses exclusively on ergonomics in the design and use of hand tools. Hand tools have been an integral supplement to the human hand since the beginning of civilization. Recently, they have been pinpointed as a prominent cause of workplace disease. Cumulative Trauma Disorders such as Tendonitis, Carpal Tunnel Syndrome, and Raynaud's Syndrome are caused by the specialization of motion employed when using a screw driver, the shock to the hand and wrist when a hammer strikes a nail, or the vibration of a power saw. Ergonomics and Safety in Hand Tool Design explores the relationship between Biomechanics, Safety, and Ergonomics allowing the reader to recognize, evaluate, and control ergonomic risk factors and improve hand tool design.

After a history of hand tool use and design, the book is broken down by the various disciplines as they apply to hand tools, taking a broad approach. The author gives special attention to safe design and use, illustrated with detailed diagrams. The text serves as a guide to the human factors in safety and ergonomics for safety professionals.

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