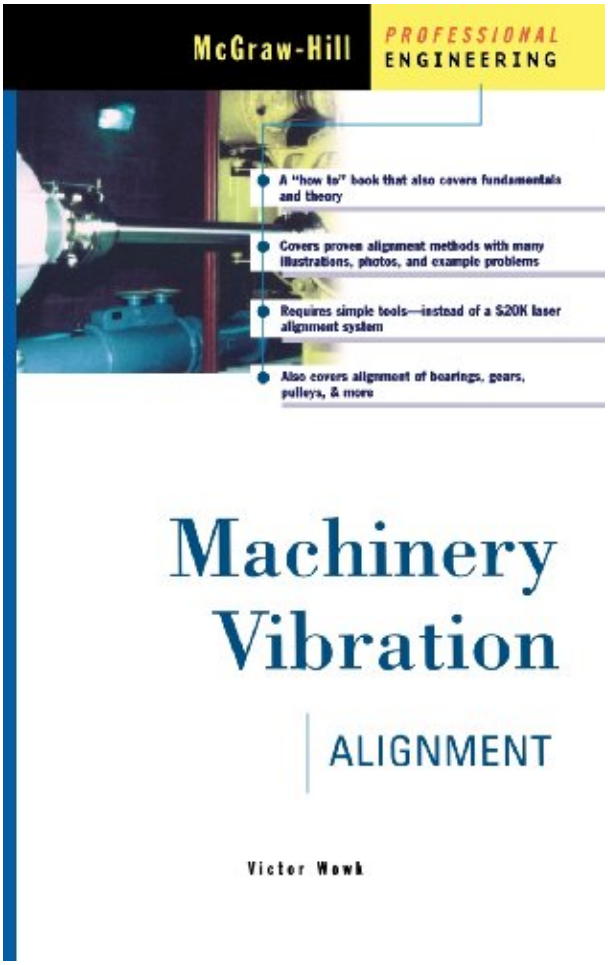
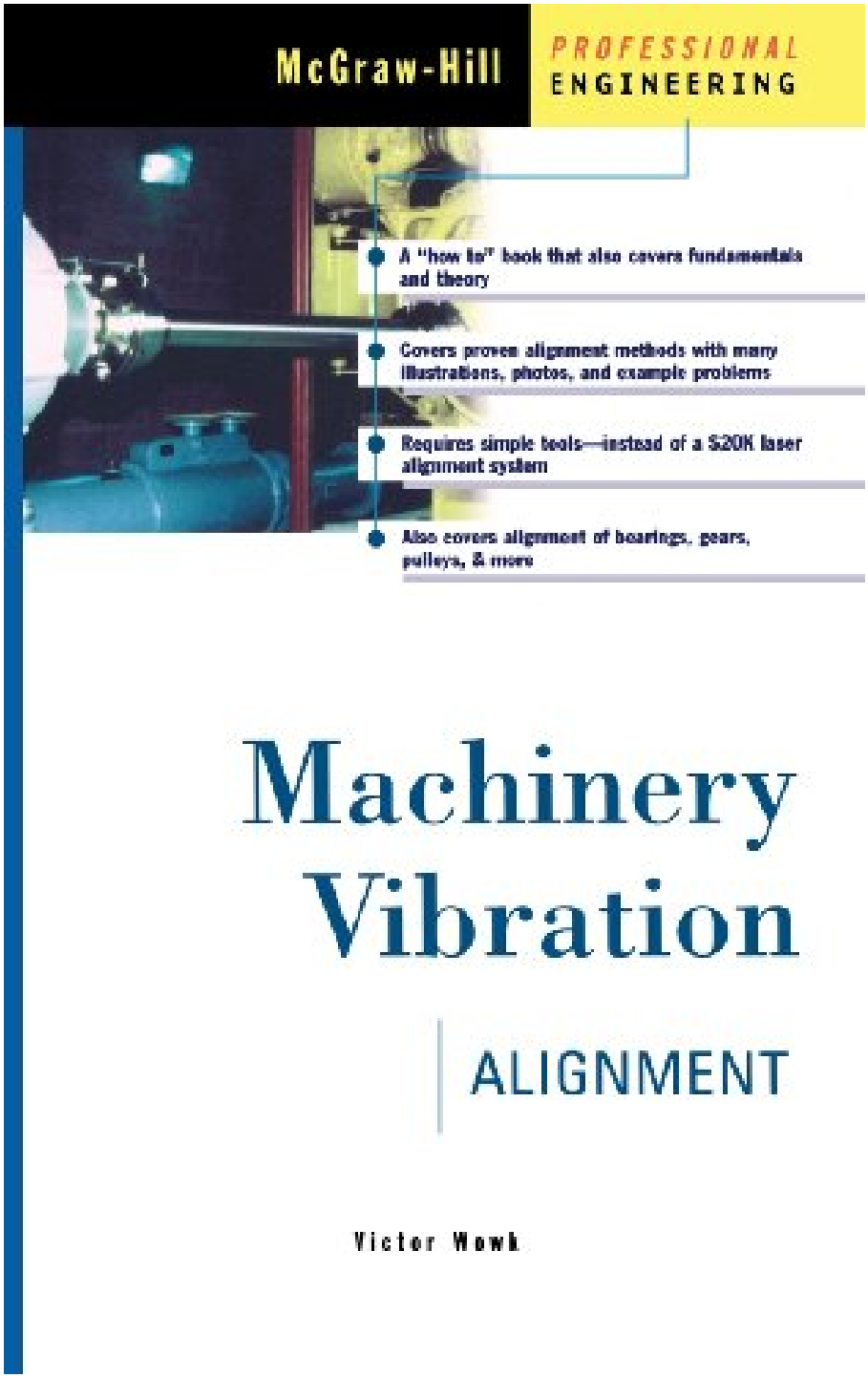
MACHINERY VIBRATION: ALIGNMENT BY VICTOR WOWK





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From the Back Cover

How to Correct One of the Most Pervasive Machine Problems - Misalignment. The misalignment of shafts and other components is one of the most common causes of vibration and failures. Here, at last, is a practical handbook that enables you to eliminate this costly problem. Written by a pioneering enigneer and author in the field, this easy-to-follow, step-by-step resource shows you how to: Diagnose Misalignment - using vibration instruments, noise, dial indicators, hand feel, and visual observations. Perform Precision Alignments - using dial indicators, lasers, optical, and electronic measuring instruments. Graphical plotting techniques are illustated with examples of the reverse-indicator method, face-and-rim, and many variations. Move Machines - from small ones to the largest ones with orchestrated positioning techniques. Judge Acceptability - with alignment tolerances based on speed and stresses at the joints. Deal with Complicating Factors - such as faulty foundations, bent shafts, soft foot, bar sag, piping strain, and thermal growth. Align Specific Machines - from normal tw-machine one-coupling horizontal systems, to long drive shafts, large and heavy machines, multiple machne trains, vertical shafts, single-bearing generators, and reciprocating machines. This authoritative guide also covers bearing alignments, gear alignment, and pulley alignements. It also includes specific chapters on couplings, optical tooling, and laser systems. Plus a valuable appendix contains generic alignment specifications and drawings to make an alignment fixture.

About the Author

Victor Wowk, P.E., is president of Machine Dynamics, Inc., based in Albuquerque, New Mexico, which specializes in vibration analysis, balancing, alignment, and health monitoring on machinery. The company manufactures a shaft alignment system. Mr. Wowk, a practical hands-on engineer, regularly performs alignments, and teaches alignment training workshops. He is the author of two other books published by McGraw-Hill, Machinery Vibration: Measurement and Analysis (1991), and Machinery Vibration: Balancing Strategies (1994).

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How-to-do-it guide to eliminating machine vibrations

One of the most common causes of severe machinery vibration is the misalignment of drive shafts and other components. Machinery Vibration: Alignment, by Victor Wowk, gives you a practical resource for aligning shafts, bearings, gears, pulleys and a wide variety of power transmission components in machines without further training. You get step-by-step procedures for balancing, resonance, structural vibrations, isolation, instruments, diagnostics, and trending. Many of the methods described require only simple tools, eliminating the need for a $20,000 laser alignment system.

Case studies covering everything from simple fans to high-speed turbines give you examples of real-world problem solving. You will find the extensive coverage of the FFT spectrum analyzer a valuable addition to this hands-on toolkit.

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