

TIGHTER GOLF

The Five-Bar Stroke

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Preface

Guiding Principles

TIGHTER GOLF begins with a simple premise: golf should be a strategic pursuit, not a battle against compounding execution errors. To address the latter, this book offers a systematic interpretation of the stroke grounded in physics, mechanics, and kinesiology. The goal is to help players and coaches produce strokes that are both precise—producing tighter dispersion patterns—and accurate—launching on the intended line with the desired trajectory and spin.

A skillful stroke depends on technique, not repetition alone. Technique is not conformity to a preferred visual pattern; intuitive play is still technique. It is the organization of movement that balances safety, effectiveness, and efficiency. The subtitle is literal: The Five-Bar Stroke names the upper-limb linkage derived within a larger coupled mechanism.

To achieve this, the system relies on binary constraints rather than quantitative control. Performance is not managed through degrees or millimeters, but through conditions that are either satisfied within the tolerance of the assembled mechanism or not. Lines satisfy their required perpendicular or parallel relationships, or they do not; a joint reaches its required end-range condition, or it does not. When the applicable constraints are satisfied, the remaining admissible geometry follows by mechanical necessity, and execution proceeds without trial correction during the stroke.

The chapters ahead organize this framework into three interdependent domains: Balance, Constraint, and Alignment. Balance determines whether the stroke can operate without postural compensation. Constraint determines whether the motion can repeat under load. Alignment determines whether that balanced and repeatable motion is directed toward the intended target. A fourth part, Equilibrium, is not a further domain but their recombination: it shows how Balance, Constraint, and Alignment sustain or break one another. Together, these domains produce a stroke whose relationships resist breakdown under load and competitive pressure.

The framework does not ask the reader to accept positions, feels, or inherited prescriptions on authority. Each operative claim must derive from the coupled system and remain accountable to procedural verification. Path Synthesis later formalizes how those relationships are solved backward into the starting configuration; here the governing requirement is simply that Balance, Constraint, and Alignment must agree within the same mechanism.

Interdependent System

Balance, Constraint, and Alignment are coupled conditions within a single mechanical system. No component is independent, no procedure is arbitrary, and no correction is localized.

Every element of the stroke exists in relation to the others. A change in grip alters the force path into the club; a change in lie angle alters the relationship among the clubhead, forearm plane, and ground; a change in stance width alters pelvic height, spinal conditions, balance, and available stroke geometry. Every adjustment propagates downstream through the system's geometry, force path, balance condition, or verification state.

For that reason, no operative claim in this framework is allowed to remain unresolved. Every principle must resolve into a procedure, every procedure into a verification, and every verification into a predictable mechanical consequence. The reader should never be asked to accept a claim merely because it resembles conventional instruction or because an expert once said it. The claim must derive from the system, connect to the procedures, and survive testing.

This is the structural difference between a catalog and a framework. A catalog identifies parts. A framework explains why the parts must relate as they do. TIGHTER GOLF does not treat the stroke as a list of components, positions, or preferences. It treats the stroke as one integrated mechanism whose parts cannot be changed without changing the whole.

The golfer's role is assembly, not conscious coordination. Setup establishes the initial conditions; execution expresses them. Once Balance, Constraint, and Alignment are in lockstep, the golfer actuates the mechanism rather than consciously manufacturing its intermediate motion. Treating an execution-phase event as something to be performed separately reintroduces the positional model this framework rejects.

This approach distinguishes TIGHTER GOLF from classical interpretations through explicit constraints, complete causal integration, and a systematic link between setup and outcome. In positional golf, the golfer is a statue-maker, attempting to match a series of static snapshots. In alignment golf, the golfer assembles an engineered mechanism whose geometry determines its balance and permitted motion. This book is designed for those who prefer mechanical logic to subjective feel—who want to know not just what works, but why it works, how each element affects the others, and how to diagnose faults at their source.

Founding Observations

TIGHTER GOLF began with two observations.

The first was a golfer with one leg hitting the ball well. If a successful stroke can be assembled without a second leg, then a universally applicable procedure cannot make two-legged support an essential requirement. That raised the question this book tries to answer: what procedure can adapt to the anthropometry of any golfer, fully abled or disabled? A single leg changes the physical resources available. It removes the force couple two feet can apply to the ground, narrows the base of support, and tightens the balance conditions within which the stroke must operate. The golfer may not be able to swing as hard. The relationships impact requires remain. They can still be satisfied within that golfer's own capacity, producing a stroke that achieves the balance of safety, effectiveness, and efficiency described in Guiding Principles.

The second was a blind golfer hitting the ball well. A second person aligned the golfer, and the golfer then simply executed. Without sight of the ball, hand-eye coordination cannot guide the club to it. Proprioception remains, but it senses the body's own configuration; during the stroke it supplies no new sensory information about the ball. The ball's location entered the stroke through pre-execution alignment, with no visual correction during execution, and the strike depended on conditions set before execution started.

Together they fix two distinctions that govern the rest of this book. The first separates capacity from procedure. Capacity determines how much performance a body can extract: speed, distance, force. Procedure determines whether the stroke works at all. Capacity scales with the individual; the constraints do not. Mechanical Specification later states this as a rule: the invariant is the relationship, and the particular magnitudes emerge from the golfer's anthropometry. The second separates assembly from execution. As Interdependent System establishes, the golfer's role is assembly; execution expresses the assembled conditions without correction during the stroke.

These observations are the origin of the framework, not its evidence. The claims that follow stand or fall by derivation and verification, as every claim in this framework must.

TIGHTER GOLF is, in my judgment, the best explanation of the golf stroke. That is an authorial assessment, not a claim of universal consensus, and it rests on a specific standard.

The distinction is not the number of disciplines cited. Golf has been examined through anatomy, kinesiology, biomechanics, physics, engineering, measurement, and instruction for decades. The distinction is whether those disciplines merely describe the same stroke from different viewpoints or are made to constrain one another as parts of a single functional system.

TIGHTER GOLF takes the latter approach. Anatomy defines the available structure. Kinesiology defines the articulations that structure permits. Mechanics determines how those articulations can operate as a constrained linkage. Physics determines how force, inertia, gravity, and rotation act through that linkage. Alignment determines whether the resulting motion resolves to the required spatial relationships. Balance determines whether those relationships can survive actuation without postural compensation. None of these domains is allowed to supply an explanation that fails in another.

The result is not primarily a numerical analysis of observed swings. It is a functional derivation. The system asks what relationships must exist for the body and club to move between admissible states while Balance, Constraint, and Alignment remain phase-locked. Address can then be derived backward from terminal geometry, and the resulting setup can be traversed forward to test whether the same relationships survive the stroke. The argument closes only when the transformation works in both directions. That closure establishes internal consistency; practical validity remains subject to procedural verification and observed ball flight.

That closed-loop requirement is the standard by which I judge this framework. A claim is not retained because it is familiar, visually persuasive, measurable in isolation, or attributable to an authority. It remains only if it can coexist with the anatomy, kinesiology, mechanics, physics, and geometry already governing the rest of the system.

Readers do not need to share my judgment. The framework requires no agreement in advance. Assemble the constraints, apply the procedures, observe the resulting motion and ball flight, and decide whether the system explains and predicts what it claims to explain.