

The Value of This Book Without Any Particular AI Tool

*Why the judgment in **Knowledge-Driven AI for SystemVerilog Assertions** holds up regardless of what your workplace allows*
Ben Cohen and Kais Chibani — systemverilog.us

Many workplaces restrict which AI tools may be used, or forbid pasting proprietary RTL into any external system.

A natural question: if you can't use our RAG-SVA methodology at work, what does this book actually give you?

Knowledge-Driven AI for SystemVerilog Assertions (Cohen & Chibani, 2026) -- SystemVerilog.us

What the book teaches (tool-independent)

- How to read a requirement and know whether a signal is a pulse or a held condition, active-high or active-low, before writing anything.
- How to decide whether a variable is an environment assumption or a DUT obligation — and that this is a design decision, not a fixed fact about the signal.
- How to write assumptions correctly: scoping them to the right clock and reset, and stating exactly what environment behavior they rule out.
- The concept of determinism — a property must evaluate the same way every time, with no dependence on race-prone or tool-specific timing.
- The concept of anchoring — every property is pinned to a specific clock edge and reset condition; get the anchor wrong and you're silently checking the wrong thing.
- The capacity to produce different testbench styles as the situation calls for — sanity, directed, constrained-random, and regression — and when each one is the right choice.

Why this survives losing tool access

- The judgment is manual-transferable: every skill above can be applied with a text editor and no AI at all.
- It is also tool-agnostic: the same judgment lets you use any AI assistant your employer does permit — and, critically, to check that assistant's output.
- A generic AI assistant fed a checklist of goals is not the same as one carrying years of accumulated, tested edge cases; the book is what closes that gap, on paper, independent of any tool.

Bottom line

The tool automates the work. The book is what lets you tell good work from bad — with or without the tool. That judgment is the part no workplace restriction can take away.