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Rod Downey*, School of Math and Stats, Victoria University, PO Box 600, Wellington, 6140, New Zealand. *Foundations of Online Structure Theory*.

There are many situations where you are colouring/scheduling/building some object where the input is incrementally, or perhaps the ambient space is so large that decisions need to be made without knowledge of the whole space. These are online situations. We discuss approaches to give a foundation to model theory for online structures. They centre around lack of delay, and on uniformity of operators. The resulting theory is quite rich and one approach gives a unified setting for computable analysis, learning theory, online combinatorics, some kinds of dynamic programming, etc.

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