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Mokhtar Aouina* (`mokhtar.aouina@jsums.edu`), Jackson State University, Department of Mathematics, 1400 John R. Lynch Street, Jackson, MS 39217. *Embedding, sectioning and compression of thickenings.*

Fix K a connected finite CW complex. C. T. C Wall [Wa] constructed the suspension map $E : T_n(K) \rightarrow T_{n+1}(K)$, given by crossing with the unit interval, to study the set of path components of the moduli space of n -thickenings. This is a basic problem in geometric topology. He then tries to examine the deviation from which the map E is surjective. An $(n+1)$ -thickening compresses if its associated equivalence class is in the image of E . In our work [A], we will outline, within our range, the conditions, the concepts and the techniques needed to compress an $(n+1)$ -thickening.

1. [A] M. Aouina: The Moduli Space of thickenings. Transactions of the AMS. Accepted June 2011. 2. [Wa] Wall, C. T. C.: Classification problems in differential topology-IV. Thickenings. Topology 5, 73-94 (1966). (Received September 22, 2011)