1067-05-1447   **Abbas Mahdi Alhakim*** (`aa145@aub.edu.lb`), Bliss Street, P.O.Box 11-0236, Beirut, Lebanon, and **Mufutau B Akinwande** (`akinwamb@clarkson.edu`). *A recursive Construction of Non-binary de Bruijn Sequences.*

We present a method to find new non-binary de Bruijn sequences of arbitrary order based on ones of lesser order. This is done recursively by mapping an existing de Bruijn sequence–regarded as a cycle in a de Bruijn digraph–to several vertex disjoint cycles in a higher order de Bruiin digraph. A new de Bruijn sequence is then obtained by connecting these cycles in any one of many different ways. This construction generalizes a well known binary construction due to Lempel. (Received September 21, 2010)