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NATIONAL CERTIFICATE MECHANOTECHNOLOGY N3

(8190373)

22 November 2022 (X-paper)
09:00–12:00

This question paper consists of 6 pages, 2 tables and 1 diagram sheet.

140Q1E2222

Mechanotechnology N3 Past Paper 2014 November

John Dillon

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web linear feedback shift registers lfsrs efficient design for test pattern generators output response analyzers also used in crc ffs plus a few xor gates better than counter external feedback lfsr fewer gates higher clock frequency q d q d q d q two types of lfsrs ck ck ck ck external feedback internal feedback

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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