Abstract

VARYSTIM uses the property of Pulse Width Modulation for designing a portable stimulator
both for nerves and muscles. The level of stimulation ranges from minimum ±1.6mA to maximum ±2.5mA with multiple frequency settings. To reduce the circuit complexity varystim can be designed in a micro level with low voltage of 9V overcoming the disadvantage of a conventional microstimulator. It is exercised in particularly to aid the rehabilitation of people with paraplegia. For that application, a low cost, portable, battery powered muscular stimulator is designed.

References
- Tashani O, Johnson MI, Centre for Pain Research, Faculty of Health, Leeds Metropolitan University, UK, Leeds Pallium, Research Group. p. 78.

Index Terms
Computer Science
Electronic Design And Signal Processing

Keywords
Varystim  Micro-stimulator  Pulse Width Modulation  Muscle-Stimulation  Electrical Stimulation