Recruit researchers

Join for free

Login

See all > 40 Citations

See all > 7 References

See all > 5 Figures

Download citation

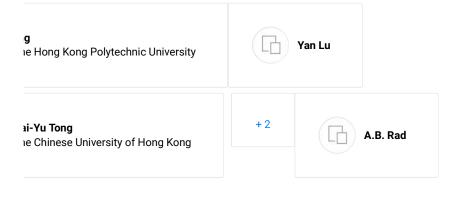
Share

Download full-text PDF

r Functional Electrical Stimulation

Advertisement

IEEE Transactions on Neural Systems and Rehabilitation Engineering 12(1):43 - 47 · April 2004 with 6,443 Reads .819936 · Source: IEEE Xplore



Show more authors

the various design of a multiple-purpose portable functional electrical stimulator which is used in surface ed muscle of patients with stroke and results in limb activation. The functionality, circuit performance and its will be examined. Analysis, design, and experimental results are presented.



nond Kai-Yu Tong Author content copyright.

+1

Insformer- Typical waveforms of a transformer-based FES.... Proposed resonant circuit for EES. Idealized waveforms of the double-mode circuit.

2 de 5

Recommendations	Discover more publications, questions and projects in Functional Electrical Stimulation
Draines	
Project	
voltage sag restorer	V. J. O.
Kai Ding · K.W.E. Cheng · D.H. Wang · [] ·	Yanbo Che
View project	
Project	
Design and application of a decoupled rotary-linear	switched reluctance motor for concentrated photovoltaic power generation
Siyang Li · K.W.E. Cheng · Yu Zou · [] · Jir	
, , ,	
View project	
Project	
Emergency Control for Catastrophic Disturbance in	Future Power Grids
📉 Hadi Lomei · 🤍 Kashem Muttaqi · 🤍 Darmawar	n Sutanto
View project	
View project	

3 de 5

Project		
Energy storage for flexcible and risillient power grid		
Ghulam Mohy-ud-din · Kashem Muttaqi · Darmawan Sutanto		
View project		
Article		
Development of a Circuit for Functional Electrical Stimulation		
January 2004		
○ K.W.E. Cheng · Yan Lu · ○ Raymond Kai-Yu Tong · [] · ○ Darmawan Sutanto		
Read more		
Conference Paper		
Adaptive neural network control of FES in arm movements and its applications based on a resonant con		
January 2003		
A.B. Rad · Raymond Kai-Yu Tong · K.W.E. Cheng · [] · L. Cao		
Three types of muscle model are discussed in this paper. Because they are time-dependent and highly nonlinear, its performance with the functional electrical stimulator (FES) must be studied so as to ensure the robustness to changes in system gain, since the gain can vary		
substantially and abruptly with changes in operating point. The paper is to study the use of neural network adaptive control [Show full		
abstract]		
Read more		

4 de 5

Conference Paper Functional Electrical Stimulator without using transformer for voltage step-up and its associated ad... September 2002 K.W.E. Cheng · A.B. Rad · Raymond Kai-Yu Tong · [...] · Y. Lu Read more Article Full-text available Quasi Current Mode Control for the Phase-Shifted Series Resonant Converter February 2008 · IEEE Transactions on Power Electronics Yan Lu · K.W.E. Cheng · S.L. Ho

A novel indirect current mode control is applied in the phase-shifted series resonant converter system. The current is generated from resonant tank vector and the resonant current is regulated indirectly through quasi current mode control and thus the dynamic performance of the converter system is improved. Only single voltage feedback is required for the system. The proposed system consists of ... [Show full abstract]

View full-text

Discover more



About	Support	Business solutions
News Company Careers	Help center FAQ	Recruiting Advertising

© ResearchGate 2019. All rights reserved.

Imprint · Terms · Privacy