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The Simulation, Design, And Fabrication Of Optical Filters Thesis Advisor: Dr. Richard Liptak The Purpose Of This Thesis Is To Create A Model For Designing Optical Filters And A Method For Fabricating The Designed Filters Onto A Multitude Of Substrates, As Well As To Find Ways To Optimize This Process. Jan 1th, 2024

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Design, Fabrication, Simulation And Characterization Of A ...

Design, Fabrication, Simulation And Characterization Of A Novel Dual-Sided Microelectrode Array For Deep Brain Recording And Stimulation Zongya Zhao 1,2, Ruxue Gong 1,2, Hongen Huang 1,2 And Jue Wang 1,2,* 1 The Key Laboratory Of Biomedical Information Engineering Of Ministry Of Education, Mar 4th, 2024

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And an ac resistance of 2.62 At 100 MHz, Which Represents The Targeted Switching Frequency Of The System-in-package Integrated Voltage Regulator. The Organic Substrate Parasitic Effects Were Accounted For Through The Extraction Of An Average Shunt Capacitance Of 1.2 PF And An Average Parasitic Conductance Of 0.12 MS At 100 MHz. Apr 1th, 2024

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Their High Operational Voltages And Small Volume Stroke Are Considered Disadvantages [3,4]. The Other Actuation Mechanisms Seem To Be Less Popular In Micropump Applications Due To Disadvantages Such As The Long Response Time In Shape Memory Alloys [5], T Jun 3th, 2024

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The G-code Was Executed Using The Open-source CNC Control Software (EMC2). After Machining, Nozzles Were Post-treated By Etching In A Dilute HCl Solution To Assist Removal Of Any Remaining Burrs That Would Cause Irregularities In The Electric And flow fields. Finally The May 4th, 2024

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During The Preparation Of VdW Heterostructure, 2D H-BN Material Has The flat Surface And Charge Uniformity, It Can Achieve A Cleaner Interface, Which Is A Good Ideal Insulating Substrate [23–25]. The Large Area, Continuous, Uniform, And Controllable Preparation Of TMDs/h-BN Heterostructure Is Jul 3th, 2024

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Results Suggest That Av Nano-delivery Systems Can Significantly Improve The Controllable Release, Photostability, And Biological Activity, Which Will Improveefficiency And Reduce Pesticide Residues. Keywords: Avermectin, Nano-delivery System, Controlled Release, Biological Activity Background Pesticides Are Important For Controlling Plant Diseases Jan 2th, 2024

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Composites [13]. Flax Fiber Polymer Matrix (with Nano Additives) Composites Were Fabricated Using Fibers With Treated And Untreated Surface. The Chemical Structures Of The Natural Fibers And The Compatibility Of The Matrix Material Were Tested To Determine The Replicability In Synthetic Polymer Composite. Apr 3th, 2024

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113-8656, Japan Jun 1th, 2024

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Fabrication Of A Wide Variety Of UHTCs, Including Monophasic Transition Metal Borides [5,8,20–25]. Along These Lines, A Novel HEB System, Namely $(\text{Hf}_{0.2}\text{Zr}_{0.2}\text{Nb}_{0.2}\text{Mo}_{0.2}\text{Ti}_{0.2})\text{B}_2$, Was Studied For The First Time In The Present Work According To The Latter Processing Route. Both Jan 1th, 2024

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