

**field patterns in a 3d tapered spiral model of the ...** - cochlear implants: from model to patients ... ulation and fully integrated neuron and ... old models are scarce. the majority of the model studies on electrical conduction are based on lumped-parameter ... and can be considered electrically uncoupled. these studies indicate that **original article an animal model for cochlear implants** - cochlear implants the effects of congenital sensorineural hearing loss on neural structure was explored using miniaturized cochlear implants manufactured (and donated) by advanced bionics corpora-tion (sylmar, calif) to restore hearing in 3- and 6-month-old congenitally deaf white kittens. four devices were clarion ii **a model of electrically stimulated auditory nerve fiber ...** - a model of electrically stimulated auditory nerve fiber ... cochlear implants, computational models, integrate-and-fire neuron introduction patients with severe hearing loss or deafness are com-monly prescribed with cochlear implants (cis). the cis ... electrically stimulated anf. current state-of-the-art **stimulation strategies and electrode design in ...** - cochlear implants stimulate the auditory nerve electrically, thereby providing an audible sound percept to the hearing impaired implant user. since both the ... stimulation strategies and electrode design in computational models of the electrically stimulated cochlea: an overview of existing literature ... **three-dimensional models of cochlear implants: a review of ...** - three-dimensional models of cochlear implants: a review of their development and how they could support management and maintenance of cochlear implant ... electrophysiological behavior of the electrically stimulated cochlea. 3d ci models provide a simulated invasive view of the cochlear electro- **detection of pulse trains in the electrically stimulated ...** - detection of pulse trains in the electrically stimulated cochlea: effects of cochlear healtha) bryan e. pfingst,b) deborah j. colesa, sheena hembrador, ... perception of electrical stimuli varies widely across users of cochlear implants and across stimula- ... animal models in which the conditions in the **modelling of the electrically stimulated cochlea - upspace** - modelling of the electrically stimulated ... required in volume conduction models of the implanted cochlea. university of pretoria etd. ... chapter 3 modelling of the electrically stimulated cochlea department of electrical, electronic and computer engineering, university of pretoria. **cochlear implants: bilateral versus unilateral** - response of the electrically stimulated nerve fiber ... 2008- phd committee for katie faulkner, department of speech and hearing ... models of recessed electrodes. proceedings of the ninth annual conference of ... cochlear implants () ... **modeling refractoriness in phenomenological models of ...** - modeling refractoriness in phenomenological models of electrically-stimulated auditory nerve fibers marko takanen1, jean-no ... weller, bernhard u. seeber2 audio information processing, technische universit ... marko.takanen@tum, 2seeber@tum introduction the ability of cochlear implants (cis) to restore hearing for **validation of high density electrode arrays for cochlear ...** - cochlear implants are neurodevices that electrically stimulate the auditory nerve and restore hearing to the deaf. over 219,000 people worldwide have been implanted with a cochlear prosthesis, and of that number, 71,000 people are in the united states [1]. despite drastic improvements over the **eur rev med pharmacol cochlear implant. histopathological ...** - spelman f, eds. cochlear implants: models of the electrically stimulated ear. new york: springer-verlag: 1989: 55-96. 7) fretz r, fravel r. design and function. a physical and electrical description of the 3m/house cochlear implant system. ear and hear 1985; (suppl. 6.): 145-195. 219 cochlear implant. histopathological guide to indications and ... **medical policy cochlear and auditory brainstem implants** - with cochlear implants. this type of hearing loss is sensorineural, which means there is damage to the tiny hair ... implant devices are available in single channel and multi-channel models. the purpose of implanting the device is ... basal cochlea is then stimulated electrically via the implant. the apical cochlea functions via native physiology **use it or lose it? lessons learned from the developing ...** - of children who are deaf and use cochlear implants to hear ... models of deafness as well in humans who are deaf. ... will present work in which cochlear implants are used to electrically ... **policy statement "cochlear implants in children: surgical ...** - policy statement "cochlear implants in children: surgical site infections and prevention and ... electrodes present in certain implant models available between ... verely hard of hearing by electrically stimulating nerves inside the inner ear. the implant consists of an exter-

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