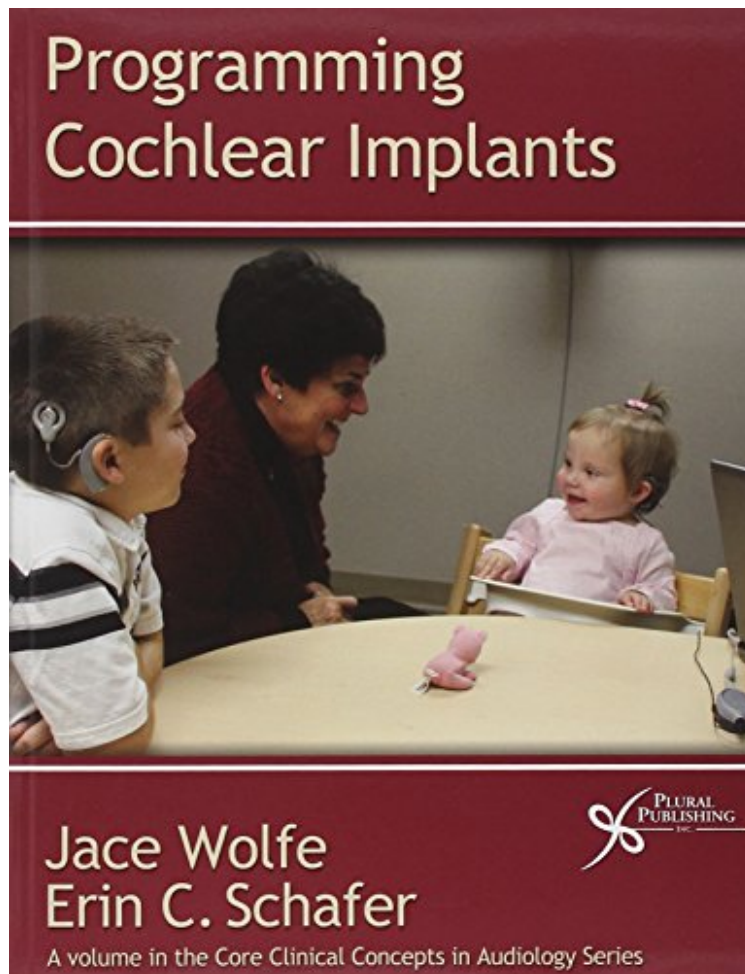


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Programming Cochlear Implants (Core Clinical Concepts in Audiology) (Core Clinical Concepts in Audiology)

Jace Wolfe, Erin Schafer

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Jace Wolfe, Erin Schafer : Programming Cochlear Implants (Core Clinical Concepts in Audiology) (Core Clinical Concepts in Audiology) before purchasing it in order to gage whether or not it would be worth my time, and all praised Programming Cochlear Implants (Core Clinical Concepts in Audiology) (Core Clinical Concepts in Audiology):

7 of 7 people found the following review helpful. Awesome CI reference for consumers alsoBy WarrenThis book is written for audiology graduate students but it is extremely helpful if you have cochlear implants or are considering getting one, particularly if you have even a modest engineering or scientific background. It answers many of the questions you may have about what your audiologist is doing when mapping your processor's software. The authors

are to be commended for not writing in an typical academic, pedantic style. Instead, their descriptions are clear and concise. 0 of 0 people found the following review helpful. Wonderful resource for audiologists, grad students, and patients wanting to learn more about the CI programming process. By SSThis is a great book for Audiology grad students or audiologists new to CI programming. Some of the technical information about each company is now outdated, but that's the nature technology- it's always improving. The basic information about cochlear implants and programming are valid. I will buy the next edition when it comes out. 8 of 10 people found the following review helpful. Very Good; 2nd Edition should be better. By Daniel L. SchwartzThis is a pretty good book for a college educated CI candidate, "power user," or even the parents of a CI kiddie, as it provides a nicely detailed overview, rather than what you can extract from the marketing hype. This book has some nice troubleshooting tips, especially for parents. Also, Chapter 7 on FM is pretty good; though it does lack the channel interference table from Phonak vs the Freedom processor. MAY 2012 UPDATE: In a conversation with Prof. Schafer, the Phonak/Nucleus FM channel table will be included in the second edition. OCTOBER 2013 UPDATE: The Nucleus 6 processor uses the GN ReSound Unite 2.4GHz digital wireless accessories including the Mini Mic, which is a direct replacement for troublesome Phonak FM technology. Where this book is quite helpful to the CI user community is pointing out where Best Practices can be (and are) skimmed on to speed things along in busy clinics; and should serve as Warning Flags to the astute user or parent. A large part of this is due to poor 3rd party reimbursement; but also it's a bit troubling that the ramifications of taking certain shortcuts is not fully discussed. However, there are two, interrelated shortfalls in this book the authors should address in the second edition: The first is a total lack of useful timing (signal) charts in Chapter 2, instead relying on awkward verbal descriptions of the various stimulation algorithms. A picture is worth a thousand words. The second shortfall is the almost complete glossing over of current steering, which is the process of simultaneous firing of adjacent electrodes to get a tighter, more focused charge pattern, which yields a "cleaner" stim. [This is indicated by the number of virtual channels, about 90 for MedEl and 120 for AB, and manifests itself as more, and more closely spaced, pitch percepts. This is made possible by separate current sources for each electrode button: AB can fire both positive and negative pulses simultaneously, while MedEl can fire multiple simultaneous positive OR negative pulses for basic current steering. To this day, even the new Nucleus 5 only has a single current source for all 22 buttons, as AB and MedEl have their technologies tightly wrapped up in worldwide patents.] One item notable by its absence is a Greenwood chart graphically explaining the cochlear tonotopic structure vs angular insertion depth. One other item notable by its absence is any mention of Advanced Bionics' Clear Voice noise reduction technology, which received the CE marque in January 2010 and was rolled out across Canada UK in February March. Granted, CV is still awaiting FDA approval, and as of this writing (September 1) has not even had the US clinical trial data submitted; but since this book is listed for sale in Britain on the .co.uk website, at least it was worthy of mention since it's a released product; and was being beta tested at the factory back in September 2009. There was also one minor annoyance while reading this book: The use of inline footnotes for published studies, as opposed to numbering and placing them at the bottom of each page, or at the end of the chapter. For a more comprehensive review, please see "Book Review: Programming Cochlear Implants, by Jace Wolfe PhD and Erin Schafer PhD" in The Hearing Blog at TheHearingBlog dot com/archives/197 Dan Schwartz, Editor, The Hearing Blog

Programming Cochlear Implants, a volume in the Core Clinical Concepts in Audiology Series, offers practical guidance for clinicians who program or plan to program cochlear implants, introducing the basics of cochlear implant programming and continuing through advanced programming techniques. Manufacturer-specific information is provided, and case studies are presented to illustrate cochlear implant programming fundamentals and strategies. Specific topics covered include: basics of cochlear implant terminology and programming, clinical protocols for cochlear implant management, programming considerations for bilateral cochlear implant recipients, troubleshooting during the programming process, device-specific programming techniques, basic use of objective measures to set cochlear implant programs, use of FM and assistive listening devices with cochlear implants, and management of the difficult-to-program recipient. This book serves as a practical guide for clinicians who are providing services to cochlear implant users and also as a teaching tool for graduate-level students.

"... a practical straightforward text that delivers what it advertises - a thorough description of how to program cochlear implant processors ... well-organized. Bold headings invite the reader to flip through the chapters to the topic of his or her interest. Large photographs, figures, and tables are clear, easy to read, and apply directly to the text. The descriptions are up-to-date and the photographs show current devices. The authors do a great job of explaining the most recent technology as well as previous strategies and devices that clinicians may encounter ... Overall, I heartily recommend this book as a useful resource in the audiology classroom as well as in the cochlear implant clinic. Drs. Wolfe and Schafer ambitiously cover the current cochlear implant technology to date, and I look forward to seeing new editions as technology emerges." --Nancy Cambron, International Journal of Audiology 2011, (2011) "Programming Cochlear Implants is a pretty darned good book for a college educated CI candidate, CI "power user", or even the parents of a "CI kiddie", as it provides a nicely detailed view of CI s, rather than what you can

extract from the "FDA-sanitized" marketing hype from the CI manufacturers. This book has some very nice troubleshooting tips, especially for parents and school audiologists. Also, Chapter 7 on hearing assistance technology (HAT), which is mostly all on FM, is very good, as it lays out how configuring FM assistive devices with CI s differs from hearing aids: In the opinion of The Hearing Blog, this chapter is worth the price of the book alone... Where this book is quite helpful to the CI user community is pointing out where Best Practices can be (and often are) skimmed to speed things along in busy clinics; and when these shortcuts are taken, should serve as Warning Flags to the astute user or parent. A large part of these shortcuts are due to poor 3rd party reimbursement; but also it s a bit troubling that the ramifications of the CI audiologist taking these shortcuts in terms of patient performance is not fully discussed in this book, i.e. it s OK if the CI audiologist has an attitude of "it s good enough for government work", which, as an Engineer, this reviewer finds a bit lacking. Most notably, the common shortcut of assuming T levels of 10% of M levels on the AB and Med-El systems will result in an incorrect input dynamic range (IDR) being displayed: It will work, but in an unpredictable manner depending on the actual (measured) T levels the patient has...Overall, we give Programming Cochlear Implants a 4 Star rating; and we highly recommend it to CI users, parents of CI kiddies, and to CI candidates." --Dan Schwartz, The Hearing Blog, (May 20, 2012)About the AuthorJace Wolfe, PhD Jace Wolfe, Ph.D., is the Director of Audiology at the Hearts for Hearing Foundation. He also is an adjunct Assistant Professor in the Audiology Department at the University of Oklahoma Health Sciences Center. Erin Schafer, PhD Erin C. Schafer, Ph.D. is an Assistant Professor in the Department of Speech and Hearing Sciences at the University of North Texas, where she has held an academic appointment since August 2005. She teaches graduate courses in the areas of aural rehabilitation, pediatric habilitation, diagnostic audiology, and research methods, and she serves as an Educational Audiology consultant for local school districts.