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the human brain is the inner universe through which all external events are perceived that fact alone should ensure that neuroscience will eventually receive top priority in the list of human endeavors the brain represents the pinnacle of sophistication in the realm of living systems yet it is an imperfect organ whose failures in disease processes lead to the occupation of more than half of all hospital beds and whose variable performance in the healthy state contributes in undetermined degree to the world's social problems every significant advance in our understanding of the brain has yielded enormous practical dividends there is every reason to believe the future holds even greater promise it can be said that brain research took root near the end of the last century when ramón y cajal proved beyond doubt that the neuron is the basic functioning unit of the brain and sherrington revealed its method of transmitting impulses but it is only in the

past two decades that neuroscience has been established as a recognized discipline where the anatomical physiological and chemical aspects of neuronal function are treated in a unified fashion it can be anticipated that this logical advance will allow brain research to reach new levels of sophistication already it has resulted in the establishment of graduate programs at dozens of universities and the found ing of numerous journals devoted to reports of interdisciplinary research on the brain

to understand construction estimating one must also understand plan reading and construction techniques this book is designed to teach the construction student these three core skills in equal measure using hundreds of plans sketches and photos the book builds case studies of the major construction divisions including concrete masonry carpentry and more over forty cases are divided into sections following a specially designed format plans scale drawings of floor plans sections or elevations plan interpretation the drawings are explained with comments scope of the work a written description of the boundaries of the work is given for each section construction techniques the construction processes and their sequence are explained the takeoff a takeoff is shown at the end of each section this approach helps foster confidence in plan reading building methods arithmetic takeoffs and estimates the various products and terms used in the industries of structural steel doors and hardware and roofing are defined the shop drawing process is explained which is so important in many industries as well as the role of and difference between manufacturers fabricators and suppliers distributors the book ends with a study of front end documents including division 00 general conditions aia 201 and division 01 general requirements and a chapter on ethics this textbook can be used to teach a variety of classes including plan reading construction techniques and estimating 1 and 2 takeoffs and pricing

this research topic is part of the ear centered sensing from sensing principles to research and clinical devices series from sensing principles to research and clinical devices volume i the human ears are an attractive location for bio signal acquisition heart rate respiratory rate eye blink and eye motion signals and skin conductance as well as the electrical activity from muscles and the brain can be recorded from the ear moreover the ears provide a discreet and natural anchoring point for placing the necessary wearable hardware thereby reducing the visibility of integrated devices we define ear centered sensing as monitoring physiological signals with sensors located in the ear canal in the pinna or around the ear ear centered sensing allows data recording over extended periods of time in everyday situations with little disturbance for the users the combination of physical measurements such as motion temperature and moisture and electrophysiological measurements such as electroencephalography eeg electrocardiography ecg electromyography emg electrooculography eog and electrodermal activity eda for example integrated over long time periods will help to gain a better understanding of psycho physiological processes ear centered sensing is therefore of interest for scientific diagnostic and therapeutic purposes and we believe that it will play a significant role in future mobile health applications as the ear is an unconventional place for monitoring these physiological measures a common challenge for ear centered sensing is to gain a better understanding of the signals that are recorded at this location the questions that need to be answered are how does the signal e g ecg or eeg acquired at the ear relate to the signal as acquired at the classical recording sites which signals are ear centered systems sensitive to which signals are lost how can we reliably discriminate in real time signals from artifacts and finally how do we interpret data that is acquired over extended periods of time when we have little or no control over the recording environment for the sensing of physiological signals over extended periods of time dedicated sensor and amplifier technology is needed that is convenient to use robust and reliable people wearing these sensors should not be restricted in their activities hence for long term usage sensor and amplifier technology need to be unobtrusive in every aspect the materials need to be biocompatible adjust to the individual s anatomy and be comfortable to wear they need to be sufficiently robust to allow for continued usage and self fitting and they need to be small and inconspicuous the electronic instrumentation including bio signal conditioners and amplifiers analog to digital converters means for signal processing and wireless transmission need to be sufficiently small and light weight to be placed at

the ear together with the sensors the power supply has to be secured either by low power electronics or by smart ways to recharge the battery or even by harvesting body energy for the tiny signal changes as produced for example by brain activity amplifiers need to be sensitive enough to detect them while maintaining robust artifact rejection capabilities

report of the dominion fishery commission on the fisheries of the province of ontario 1893 issued as an addendum to vol 26 no 7

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