1. Record Nr. UNINA9910828428703321 Autore Vallero Daniel A Titolo Biomedical ethics for engineers: ethics and decision making in biomedical and biosystem engineering / / Daniel A. Vallero Amsterdam: Boston, : Elsevier/Academic Press, c2007 Pubbl/distr/stampa **ISBN** 1-281-04896-8 9786611048969 0-08-047610-4 Edizione [1st ed.] Descrizione fisica 1 online resource (433 p.) The biomedical engineering series Collana Disciplina 174/.957 Soggetti Biomedical engineering - Moral and ethical aspects Medical ethics **Bioethics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references (p. 348-362) and indexes. Nota di contenuto Front Cover; Biomedical Ethics for Engineers: Ethics and Decision Making in Biomedical and Biosystem Engineering; Copyright Page; Table of Contents; Preface; DONE IS GOOD; STRUCTURE AND PEDAGOGY; NOTES AND COMMENTARY; Acknowledgments; Bioethics Questions Posed in Text; Prologue: Bioethics - Discovery through Design; A DIFFERENT APPROACH TO BIOETHICS; ARGUMENTS FOR AND AGAINST CASE ANALYSIS: DRIVER'S EDUCATION ANALOGY: EXAMPLE CASE: PRIMING THE PUMP; CASE ANALYSIS; NOTES AND COMMENTARY; Chapter 1 Bioethics: A Creative Approach; THOUGHT EXPERIMENTS; Teachable Moment: Trust THE PRINCIPLE OF DOUBLE EFFECT Teachable Moment: The Engineer as Agent versus Judge; Amy the Engineer; Teachable Moment: Who Was Van Rensselaer Potter?; CREDAT EMPTOR; Teachable Moment: Capital Punishment, Abortion, and the Definition of Human Life; THE GOOD ENGINEER; FEEDBACK AND ENHANCEMENT OF DESIGN; Teachable Moment: The Good Engineer: The Profession of Engineering: ENGINEERING BIOETHICS AND MORALITY; Discussion Box: Ethics and

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Sommario/riassunto

Biomedical Ethics for Engineers provides biomedical engineers with a new set of tools and an understanding that the application of ethical measures will seldom reach consensus even among fellow engineers and scientists. The solutions are never completely technical, so the engineer must continue to improve the means of incorporating a wide array of societal perspectives, without sacrificing sound science and good design principles. Dan Vallero understands that engineering is a profession that profoundly affects the quality of life from the subcellular and nano to the planetary scale. Protect