

□ **EECS 598-008: Medical Device Security. Winter 2013**
 □ **University of Michigan, Computer Science and Engineering**
 □ **<http://www.eecs.umich.edu/courses/eecs598-008/>**

□ Instructor: Prof. Kevin Fu
 □ N.B.: Additional reading material appears on the website.

Printed Readings	Course Reader Pages
□ 1 This table of contents	p. 0
□ 2 "Software Design" Chapter 16 from <i>Reliable Design of Medical Devices</i> by Richard Fries, CRC Press, 2006. (pp. 255-271)	pp. 1-17
□ 3 "Ramifications of Software Defects" Chapter 2 from <i>Safe and Sound Software: Creating an Efficient and Effective Quality System for Software Medical Device Organizations</i> by Thomas H. Faris, Quality Press, 2006. (pp. 21-42)	pp. 18-39
□ 4 "Dependability Requirements" Chapter 2 from <i>Fundamentals of Dependable Computing for Software Engineers</i> by John Knight, CRC Press, 2012. (pp. 27, 41-64)	pp. 40-64
□ 5 "Battery" Chapter 7 from <i>Design of Cardiac Pacemakers</i> by John G. Webster, IEEE Press, 1995. (pp. 161-170)	pp. 65-74
□ 6 "Implantable Cardioverter-Defibrillators" Chapter 19 by Adrianus Djohan from <i>Design of Cardiac Pacemakers</i> edited by John G. Webster, IEEE Press, 1995. (pp. 21st)	pp. 75-95
□ 7 "Microprocessor-Based Pacemaker Design" Appendix by Surekha Palreddy from <i>Design of Cardiac Pacemakers</i> edited by John G. Webster, IEEE Press, 1995. (pp. 460-470)	pp. 96-106
□ 8 "If I Only Changed the Software, Why Is the Phone on Fire" Chapter 6 from <i>If I Only Changed the Software, Why Is the Phone on Fire: Embedded Debugging Methods Revealed</i> by Lisa Simone, Elsevier, 2007. (pp. 147-181)	pp. 107-141
□ 9 "The Case of the Rapid Heartbeat: Meeting the Spirit of the Requirements" Chapter 7 from <i>If I Only Changed the Software, Why Is the Phone on Fire: Embedded Debugging Methods Revealed</i> by Lisa Simone, Elsevier, 2007. (pp. 183-211)	pp. 142-170
□ 10 "Computers and Risk" Chapter 2 from <i>Safeware: System Safety and Computers</i> by Nancy G. Leveson, Addison-Wesley, 1995. (pp. 21-38)	pp. 171-188
□ 11 "Verification of Safety" Chapter 18 from <i>Safeware: System Safety and Computers</i> by Nancy G. Leveson, Addison-Wesley, 1995. (pp. 489-508)	pp. 189-208
□ 12 "Managing Safety and the Safety Culture" Chapter 13 from <i>Engineering a Safer World: Systems Thinking Applied to Safety</i> by Nancy G. Leveson, MIT Press, 2011. (pp. 415-443)	pp. 209-237
□ 13 "Wounds That Don't Heal: Nurses' Experience with Medication Errors" Chapter 9 by Linda A. Treiber and Jackie H. Jones from <i>First Do Less Harm</i> by editors Ross Koppel and Suzanne Gordon, Cornell University Press, 2012. (pp. 180-195)	pp. 238-253
□ 14 "The Framework of Contextual Integrity: Breaking Rules for Good" chapter from <i>Privacy in Context: Technology, Policy, and the Integrity of Social Life</i> by Helen Nissenbaum, Stanford Univ. Press, 2010. (pp. 171-174)	pp. 254-257
□ 15 "The Economics of Cybersecurity" Chapter 9 from <i>Security in Computing</i> by Charles P. Pfleeger and Shari Lawrence Pfleeger, Prentice-Hall, 2007. (pp. 571-602)	pp. 258-289
□ 16 "States and Actions" Chapter 6 from <i>Press On: Principles of Interaction Programming</i> by Harold Thimbleby, MIT Press, 2007. (pp. 163-199)	pp. 290-326
□ 17 "The Food and Drug Administration" Chapter 3 from <i>Reliable Design of Medical Devices</i> by Richard Fries, CRC Press, 2006. (pp. 25-51)	pp. 327-353