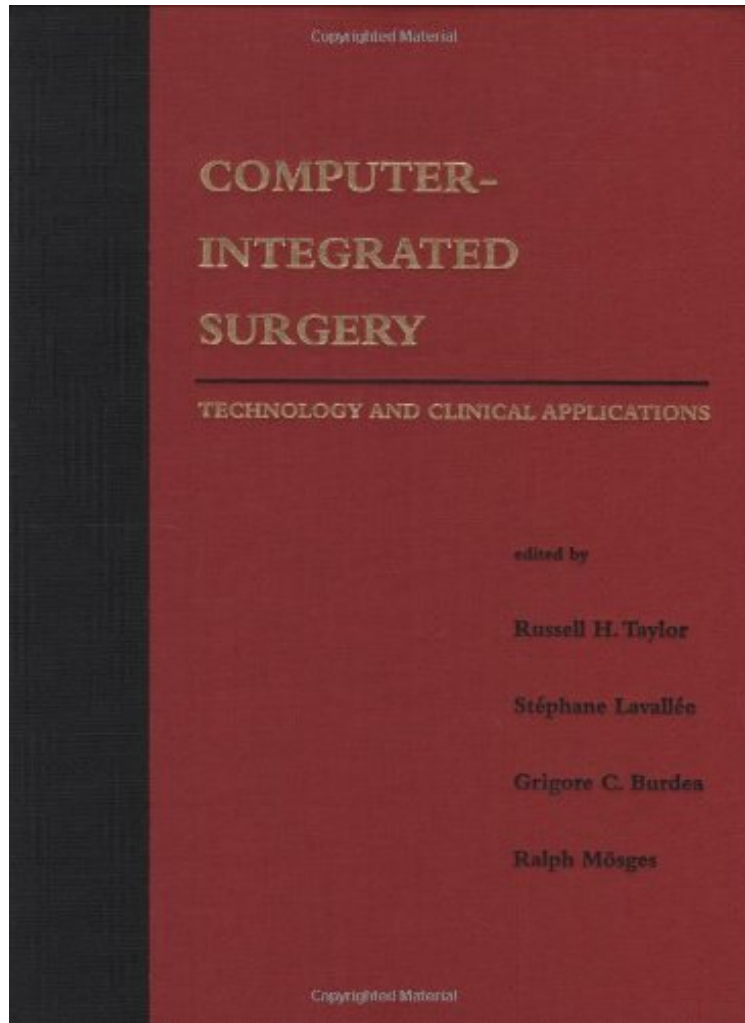


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# Computer-Integrated Surgery: Technology and Clinical Applications

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1 of 2 people found the following review helpful. Emerging Technology! By ECK This book is wonderful if you are severely interested in CIS. I go to Johns Hopkins where Dr. Taylor actually teaches the class. The book is well written and covers a lot of interesting subjects pertaining to the emerging field of CIS. This is the definitive case and information book for getting info on CIS.

In *Computer-Integrated Surgery* leading researchers and clinical practitioners describe the exciting new partnership that is being forged between surgeons and machines such as computers and robots, enabling them to perform certain skilled tasks better than either can do alone. The 19 chapters in part I, *Technology*, explore the components -- registration, basic tools for surgical planning, human-machine interfaces, robotic manipulators, safety -- that are the basis of computer-integrated surgery. These chapters provide essential background material needed to get up to speed on current work as well as a ready reference for those who are already active in the field. The 39 chapters in part II, *Applications*, cover eight clinical areas -- neurosurgery, orthopedics, eye surgery, dentistry, minimal access surgery, ENT surgery, craniofacial surgery, and radiotherapy -- with a concluding chapter on the high-tech operating room. Each section contains a brief introduction as well as at least one "requirements and opportunities" chapter written by a leading clinician in the area under discussion.