Simulations have been a fixture of aviation training for many years. Advances in simulator technology now enable modern flight simulation to mimic very closely the look and feel of real world flight operations. In spite of this, the researchers, trainers, and simulation developers should look beyond mere simulator fidelity to produce meaningful training outcomes. Optimal simulation training development can unquestionably benefit from knowledge and understanding of past, present, and future research in this topic area. Due to decades of research dedicated to simulation training in aviation, this may be easier said than done. As a result, this book, a series in Human Factors, of important writings will prove invaluable as a reference, to help guide exploration of critical research in the field. By providing a collection of classic articles that stand the test of time, and recent writings that illuminate current issues, this book informs a broad range of topics relevant to simulation training in aviation ranging from using simulation for training, simulation fidelity, physiological responses and simulator sickness to training evaluation using simulation. Good collection of articles makes this book a valuable reference for studies related to simulation and simulators.

Title: Advanced Cardiovascular Exercise Physiology
Author: Denise L Smith and Bo Fernall
Hardcover book
Publishers: Human Kinetics
Cost: Rs. 4189(71$).

Advanced Cardiovascular exercise physiology systematically details the effect of acute and chronic exercise training on the cardiovascular system. This book highlights the complex interaction of various components both during rest and exercise. The beneficial effects of exercise on the cardiovascular system have been explained with their mechanisms. The underlying mechanisms of exercise responses and adaption have been explained based on latest scientific research. Figures and graphical representations have been widely employed to elucidate physiological mechanisms, convey scientific data and to depict exercise responses and training adaptations. The book is divided into sections, one describing the structure and function of cardiovascular system and the other deliberating on the effects of exercise on the cardiovascular system. The reader should have a basic knowledge of anatomy and physiology. Well written and provides easy understanding of the complex effects of exercise and the benefits of exercise.

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