



# Biomechanics and Motor Control of Human Movement

By David A. Winter

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**Biomechanics and Motor Control of Human Movement** By David A. Winter

Looks at human body movement as a mechanical system and examines techniques used to measure and analyze all body movements. Each limb of the body is treated as a separate segment connected at hinge joints. Muscles are replaced by actuators and the net effect of all muscles is replaced by torque motors. The characteristics of those actuators are documented, along with their neural control as represented in the readily available electromyographic signal. The book's organization is such that description of the movement is covered first, followed by chapters that examine the cause of the movement at kinetic and electromyographic levels. Will appeal to all those involved in the study of a wide variety of human movement problems--from pathological gait to chronic running injuries. Material on biomechanical techniques contributes to the understanding of such everyday movements as walking and lifting. Information is integrated with a common set of data and analyses. In addition, basic physics principles are presented in capsule form for ease of use. This text is a substantial revision of the widely used *Biomechanics of Human Movement*, updated and retitled to reflect progress in the field.

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## Biomechanics and Motor Control of Human Movement By David A. Winter Bibliography

- Sales Rank: #1269969 in Books
- Published on: 1990-05
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.41" h x .83" w x 6.40" l, .0 pounds
- Binding: Hardcover
- 277 pages



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## **Editorial Review**

From the Publisher

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The reason? Because this Biomechanics and Motor Control of Human Movement is an unordinary book that the inside of the reserve waiting for you to snap this but latter it will surprise you with the secret the idea inside. Reading this book alongside it was fantastic author who else write the book in such remarkable way makes the content within easier to understand, entertaining means but still convey the meaning totally. So , it is good for you for not hesitating having this any longer or you going to regret it. This unique book will give you a lot of benefits than the other book possess such as help improving your ability and your critical thinking means. So , still want to hold up having that book? If I were being you I will go to the publication store hurriedly.

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