

# THE DISCOVERY OF SELF-MOTION

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## LECTURE 1

1. Introduction
2. Using Inertial and Gyroscopic effects to produce Self-Motion\*
3. Pushing “down” to move “forward”?
4. Modeling Birds and Insects\*
5. The Mechanics of Electromagnetic Motion
6. Can Temperature produce motion? How?\*
7. Modeling the Touch that seemed to move everything\*
8. The First Mechanical-Muscle-Model\*\* that moved alone\*

## LECTURE 2

1. Abandoning Newton’s  $F=ma$  at the macro level?\*
2. Adopting Einstein’s  $E=h\nu$  at the macro level\*
3. What “specifically” confused Planck, Einstein, Bohr and other scientists about Quantum Mechanics?
4. How to produce Natural Motion in Robots?\*
5. The Biology and Psychology of Mind, Body and Motion
6. Self-Motion is Natural-Mechanical-Quantum-Motion

### ***Definitions***

### ***Propositions***

### ***The Laws of Self-Motion***

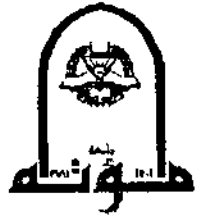
7. The Education Challenge: From K-12 to Higher Education

\* Results of thousands of tests will be presented.

\*\* Description will allow all researchers to reproduce the effect.

جامعة مؤتة  
MU'TAH UNIVERSITY

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



الرقم .....  
التاريخ .....  
الموافق 6/15/97

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Dear Dr. AbuTaha

We are honored to invite you to give an Invited lecture about your new discovery . f the self motion on the CMSI conference which will beheld at Mu'tah University on 1-4/11/1997 . We are looking forward to see you in Jorda .

With our best regards

Sincerely Yours

Dr. Ali Qudah  
Chairman of Organization  
Committee of CMSI

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## The Discovery of Self-Motion, or Natural-Mechanical-Quantum-Motion

by  
Ali F. AbuTaha

The First Conference on Materials Science (CMS1)  
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### ABSTRACT

Self-motion denotes the natural motions that bodies and particles produce from within themselves. No one has ever been able to (1) explain how self-motion happens, (2) derive the equations that govern self-motion, or (3) construct working models to demonstrate and verify the effect. In a research that has spanned the second half of the twentieth century, I produced self-motion in lifeless mechanical bodies by dynamic coupling of oscillations of the bodies or their parts. I examined the properties of the motion as function of frequency, geometry, mass, temperature and interface conditions, and I discovered that self-motion obeys quantum rules. In this talk, I will describe the steps that led to the discovery, the tests that demonstrated the limitations of classical mechanics at the macro level and how to construct models to demonstrate self-motion and verify its quantum nature. I will also present preliminary Definitions and Laws of Self-Motion. For several years, Sir Roger Penrose, of the Mathematical Institute in Oxford, has argued for "*a radical upheaval* in the very basis of physical theory." The theory of self-motion is such a radical step which, as I will describe, clarifies great difficulties encountered in classical, quantum and electromagnetic theories, including, the perplexing particle-wave and force-field concepts.

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