WELCOME TO THE King H. YANG HOME PAGE

TEACHING

BME 5110 Vehicle Safety Engineering I BME 5120 Vehicle Safety Engineering II BME 5210 Musculoskeletal Biomechanics ME 5035 Applications of Finite Element Analyses in Design and Manufacturing ME 5040 Finite Element Methods ME 5160 Musculoskeletal Biomechanics ME 7020 Finite Element Methods II



ME 8020 Crashworthiness and Occupant Protection in Transportation Systems

RESEARCH

Recent Publication

Modeling the Human Body

WSU Human Injury **Investigation Model**

Brain Head & Neck

Thorax

Abdomen

Spi ne

Pelvis & Hip

Ankle

Knee

Automotive Safety and Crash Dummy Modeling

1. Effects of Airbag Folding Patterns

2. Passenger Side Airbag Modeling



BIOSID Dummy Model and Validation

Hybrid III Dummy Model and Validation

Orthopaedic Biomechanics



Seat comfort and spinal load Rear-end impact neck injury mechanism Hip fracture mechanism Head protection in sports event

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