UTM
UNIVERSITI TEKNOLOGI MALAYSIA
Faculty of Engineering

AMRCG
Applied Mechanics Research & Consultancy Group

APPLIED MECHANICS RESEARCH AND CONSULTANCY GROUP (AMRCG)

NICHE AREA

- Computational solid mechanics
- Structural dynamic
- Structural impact and crashworthiness
- Acoustic emission
- Noise & Vibration
- Fatigue & fracture analyses
- Thin-walled structures
- Finite element analysis
- Light weight materials
- Mechanics of composite

SERVICES AND FACILITIES

- Tensile-fatigue testing machine
- Digital Image Correlation (DIC)
- LS-DYNA & Abaqus
- Open source laboratory

LS Dyna
SIMULIA ABAQUS

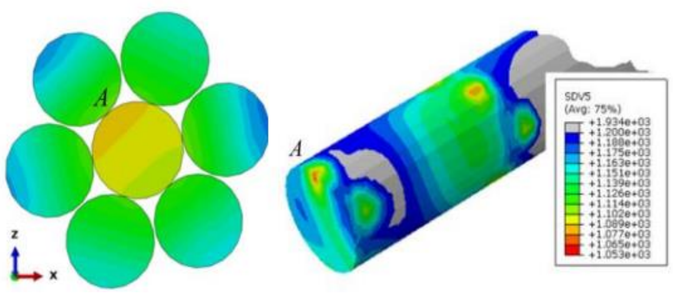
FLAGSHIP RESEARCH

Community projects @ Translational research

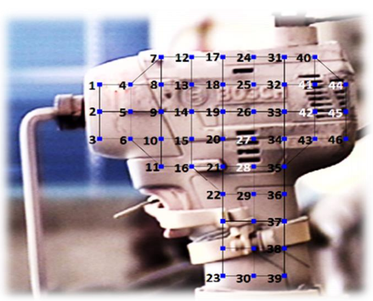
Al-Quran e-Braille

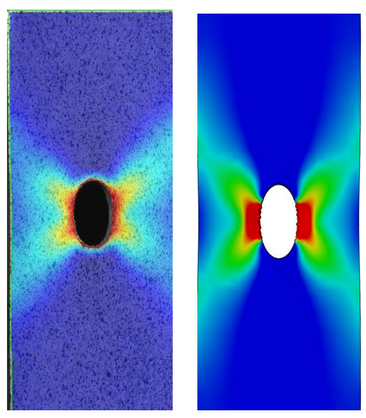
Plasma tech in mushroom planting (CDL Tech Plantation Sdn Bhd)

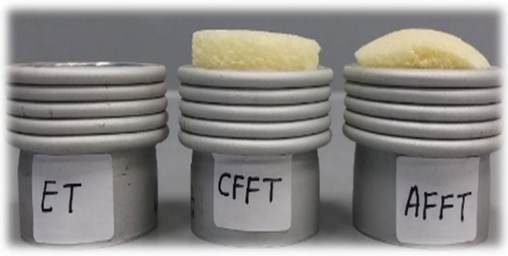
Industrial projects

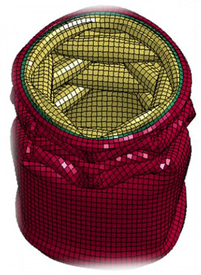


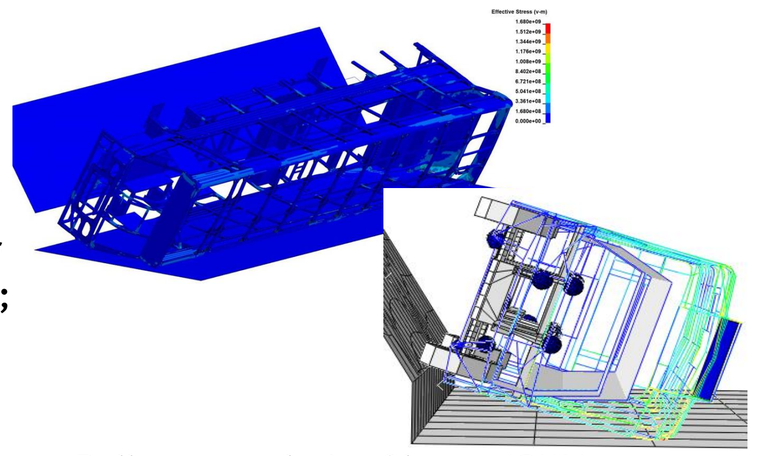
FEA - KISWIRE wire ropes


Noise and vibration - vibro-acoustics performances of BOSCH impact driver


DIC - Damage assessment of laminated composites (AMIC; CTRM; AIRBUS)




Crashworthiness and energy absorption capability - light weight/thin-walled structures


Roll-over analysis of buses (GML)

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CDL
MiGHT Malaysian Industry-Government Group for High Technology
Rolls-Royce
BOSCH
MIROS MALAYSIAN INSTITUTE OF ROAD SAFETY RESEARCH
CTRM
AIRBUS
DRB-HICOM
AMIC aerospace malaysia innovation centre
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