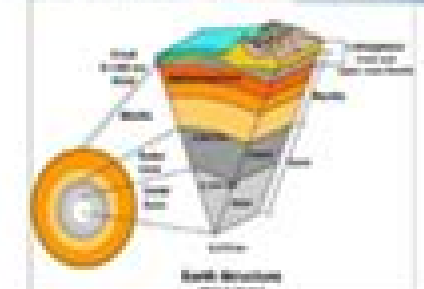


Moments - moment of a force is the turning effect of a force on an object



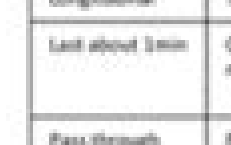
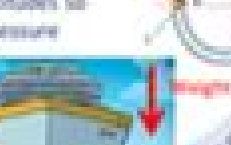
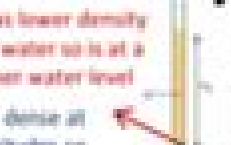
Particles collide and create pressure
Upthrust - upward force on the object due to a fluid, caused by the fluid pressure

The boat displaces the water. The more the object enters the water the more water is displaced = more upthrust



Increasing FORCE or distance = increased MOMENT

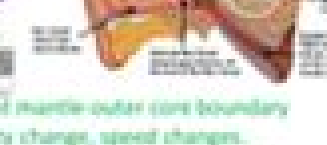
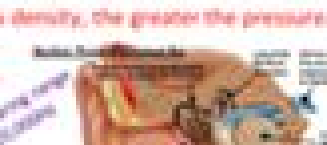
Using a lever (eg spanner) exerts a greater force on the load than the force exerted on the lever (force multiplier)



$(\text{mass of A} \times \text{velocity of A}) + (\text{mass of B} \times \text{velocity of B})$

Dependent on mass, velocity change and impact time

Longer impact time = reduced impact force



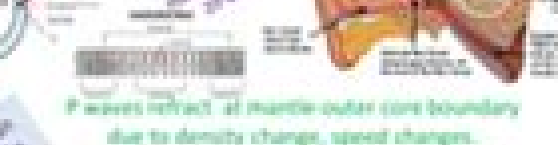
Conserving momentum - in closed systems, the total momentum before a collision is equal to the total momentum after the collision (provided no external factors)



Feature	Reason
Seat belt	Spreads out force and increases impact time reducing force
Helmet	Increase impact time reducing force
Air bags	Spreads out force and increases impact time reducing force
Crumple zones	Increase impact time reducing force
Child car seats	Spreads out the force. Rear facing protects baby against impact
Side impact bars	Increase impact time reducing force
Collapsing steering wheel	Increase impact time reducing force

Physics Paper 2 TRIPLE

The greater a liquid's density, the greater the pressure
Water at same depth is at same pressure

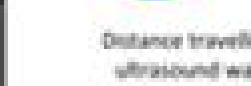
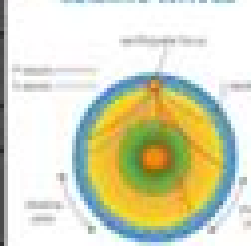


SOUND WAVES - LONGITUDINAL WAVES
Sound waves vibrate the ear drum, which sends signals to the brain
High frequency = high pitch
High amplitude = high volume



P Waves	S Waves	L Waves
Primary waves	Secondary waves	Long waves
Longitudinal	Transverse	
Last about 1min	Occur a few minutes later	Travel much slower than P & S waves
Pass through mantle and outer core	Pass through mantle only	Only pass through the core

SEISMIC WAVES



Reflection of sound from smooth surfaces. To calculate distance/depth: $d = v \times t$



ultrasound frequency is about 20kHz



Distance travelled by wave = $v \times \text{speed of ultrasound waves in body} \times \text{time taken}$

Ultrasound - used for prenatal scans of a foetus, vital organs and muscles.

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Christiansen, Mohand-Said Hacid, Troels Andreasen, Henrik Legind Larsen, 2004-08-17

This volume constitutes the proceedings of the Sixth International Conference on Flexible Query Answering Systems FQAS 2004 held in Lyon France on June 24-26 2004 FQAS is the premier conference for researchers and practitioners concerned with the vital task of providing easy, flexible and intuitive access to information for every type of need This multidisciplinary conference draws on several research areas including databases information retrieval knowledge representation soft computing multimedia and human computer interaction With FQAS 2004 the FQAS conference series celebrated its tenth anniversary as it has been held every two years since 1994 The overall theme of the FQAS conferences is innovative query systems aimed at providing easy, flexible and intuitive access to information Such systems are intended to facilitate retrieval from information repositories such as databases libraries and the Web These repositories are typically equipped with standard query systems that are often inadequate for users The focus of FQAS is the development of query systems that are more expressive, informative, cooperative, productive and intuitive to use Depth Classification and Reference Service & Reference Material Shiyali Ramamrita Ranganathan, 1953 *IUTAM Symposium on Statistical Energy Analysis* F.J.

Fahy, W.G. Price, 2013-03-09 This volume is a record of the proceedings of the Symposium on Statistical Energy Analysis SEA held at the University of Southampton in July 1997 which was held under the auspices of the International Union of

Theoretical and Applied Mechanics Theoretical SEA is form of modelling the vibrational and acoustical behaviour of complex mechanical systems which has undergone a long period of gestation before recent maturation into a widely used engineering design and analysis tool which is supported by a rapidly growing supply of commercial software SEA also provides a framework for associated experimental measurement procedures data analysis and interpretation Under the guidance of the members of a distinguished International Scientific Committee participants were individually invited from the broad spectrum of SEAfarrers including academics consultants industrial engineers software developers and research students The Symposium aimed to reflect the balance of world wide activity in SEA although some eminent members of the SEA community were sadly unable to attend In particular Professor Richard Lyon and Dr Gideon Maidanik two of the principal originators of SEA were sorely missed This publication contains copies of all the papers presented to the Symposium together with a summary of the associated discussions which contains valuable comments upon the contents of the formal papers together with the views of participants on some fundamental issues which remain to be resolved Game & Puzzle Design, vol. 2, no. 2, 2016 (B&W) Cameron Browne, **English Mechanic and World of Science** ,1886 *Hamiltonian Dynamical Systems* R.S MacKay,J.D Meiss,2020-08-17 Classical mechanics is a subject that is teeming with life However most of the interesting results are scattered around in the specialist literature which means that potential readers may be somewhat discouraged by the effort required to obtain them Addressing this situation Hamiltonian Dynamical Systems includes some of the most significant papers in Hamiltonian dynamics published during the last 60 years The book covers bifurcation of periodic orbits the break up of invariant tori chaotic behavior in hyperbolic systems and the intricacies of real systems that contain coexisting order and chaos It begins with an introductory survey of the subjects to help readers appreciate the underlying themes that unite an apparently diverse collection of articles The book concludes with a selection of papers on applications including in celestial mechanics plasma physics chemistry accelerator physics fluid mechanics and solid state mechanics and contains an extensive bibliography The book provides a worthy introduction to the subject for anyone with an undergraduate background in physics or mathematics and an indispensable reference work for researchers and graduate students interested in any aspect of classical mechanics *Selected Bibliography of Research Materials on Education in the USSR* ,1958 *Define Universe and Give Two Examples* Barton E. Dahneke,2006

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