



A block  $B$  is placed on a plane inclined at  $30^\circ$  to the horizontal. A particle  $P$  of mass  $0.6 \text{ kg}$  is placed on the upper surface of  $B$ . The particle  $P$  is attached to one end of a light inextensible string which passes over a smooth pulley fixed to the top of the plane. A particle  $Q$  of mass  $0.5 \text{ kg}$  is attached to the other end of the string. The portion of the string attached to  $P$  is parallel to a line of greatest slope of the plane, the portion of the string attached to  $Q$  is vertical and the string is taut. The particles are released from rest and start to move with acceleration  $1.4 \text{ m s}^{-2}$  (see diagram). It is given that  $B$  is in equilibrium while  $P$  moves on its upper surface.

- Find the tension in the string while  $P$  and  $B$  are in contact.
- Calculate the coefficient of friction between  $P$  and  $B$ .
- Given that the weight of  $B$  is  $7 \text{ N}$ , calculate the set of possible values of the coefficient of friction between  $B$  and the plane.



(i)  $P$   $R(\perp)$   $R = \cos 30 \times 0.6g$   
 $R = 5.09$

$4.2 = (0.6 \times 0.6g) - \mu(5.09) = 0.6 \times 1.4$   
 $\mu = 0.0825$

$F = \mu R$   
 $= 0.0825 \times 5.09$   
 $= 0.42$

(iii)  $R(\parallel)$   $R = \cos 30 \times (0.6g + ?)$   
 $R = 11.2$

$R(\nearrow)$   $F + F = 7 \sin 30$   
 $F_1 + 0.42 = 7 \sin 30$   
 $F_1 = 3.08$

$F_1 = \mu R$   
 $\mu = \frac{F_1}{R} = \frac{3.08}{11.2} = 0.276$   $\mu \geq 0.276$

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**National Research Council Canada**



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A Level Further Mathematics for OCR A Mechanics Student Book (AS/A Level) Jess Barker, Nathan Barker, Michele Conway, Janet Such, 2017-12-14 New 2017 Cambridge A Level Maths and Further Maths resources to help students with learning and revision Written for the OCR AS A Level Further Mathematics specification for first teaching from 2017 this print Student Book covers the Mechanics content for AS and A Level It balances accessible exposition with a wealth of worked examples exercises and opportunities to test and consolidate learning providing a clear and structured pathway for progressing through the course It is underpinned by a strong pedagogical approach with an emphasis on skills development and the synoptic nature of the course Includes answers to aid independent study

**Procedures and Patient Care for the Physical Therapist Assistant** Jennifer Memolo, 2024-06-01 Procedures and patient care will be one of the first courses a physical therapist assistant PTA student will encounter as they begin their educational career The foundational material covered in Procedures and Patient Care for the Physical Therapist Assistant includes information about transfers positioning vital sign measurement wheelchair fit and management assistive devices and gait These skills are vital to know as a PTA regardless of specialization or location of employment Inside Procedures and Patient Care for the Physical Therapist Assistant Jennifer Memolo includes objectives key terms common abbreviations and review questions Also in each chapter is information adhering to the current best practice and an understanding of red flags a PTA should know and report to supervising physical therapists or other health care providers This text stands out from others because it is catered specifically to PTA students rather than the generalized health care practitioner It can be used throughout the student's education as a reference since all other courses build upon and cycle back to this core information It can also be utilized even after graduation as preparatory material for the board examination or as a refresher for the practicing clinician Included with the text are online supplemental materials for faculty use in the classroom Procedures and Patient Care for the Physical Therapist Assistant provides core information that the PTA will use and build upon throughout their entire career which is what makes it a suitable text for students faculty and clinicians

**English Mechanics and the World of Science**, 1889

Computational Fluid and Solid Mechanics 2005 Klaus-Jürgen Bathe, 2005 The MIT Conferences in Computational Fluid and Solid Mechanics are now established as the premier meeting place for industry and academia to come together and share ideas Distinguished and thought provoking keynote lectures cutting edge research results and directions for future research are presented in over 600 contributions The CD Rom version enables specialized searching across complete contents Contributing authors present results which address eight fundamental areas for research and development The automatic solution of mathematical models Effective numerical schemes for fluid flows The development of an effective mesh free numerical solution method The development of numerical procedures for multiphysics problems The development of numerical procedures for multiscale problems The modelling of uncertainties The analysis of complete life cycles of systems

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**Infrastructure** F. B. J. Barends,1999      **Geometric Methods in Physics** Piotr Kielanowski,Pierre Bieliavsky,Alexander Odesskii,Anatol Odziejewicz,Martin Schlichenmaier,Theodore Voronov,2014-08-19 The Bia owie a Workshops on Geometric Methods in Physics which are hosted in the unique setting of the Bia owie a natural forest in Poland are among the most important meetings in the field Every year some 80 to 100 participants from both the mathematics and physics world join to discuss new developments and to exchange ideas The current volume was produced on the occasion of the 32nd meeting in 2013 It is now becoming a tradition that the Workshop is followed by a School on Geometry and Physics which consists of advanced lectures for graduate students and young researchers Selected speakers at the 2013 Workshop were asked to contribute to this book and their work was supplemented by additional review articles The selection shows that despite its now long tradition the workshop remains at the cutting edge of research The 2013 Workshop also celebrated the 75th birthday of Daniel Sternheimer and on this occasion the discussion mainly focused on his contributions to mathematical physics such as deformation quantization Poisson geometry symplectic geometry and non commutative differential geometry

**Journal of Geotechnical Engineering** ,1987      **Nuclear Science Abstracts** ,1975-02      *Microform Review* ,1995  
Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1993      *Coal Age* ,1969      **East European Accessions Index** ,1955-04      **Building on the Success of 35 Years of Title IX** United States. Congress. House. Committee on Education and Labor. Subcommittee on Higher Education, Lifelong Learning, and Competitiveness,2008      **Library & Information Science Abstracts** ,1992

**Experimental Investigation of the Uplift Behavior of Spread Foundations in Cohesionless Soil** Costakis N. Nicolaidis,1986      *Science Abstracts* ,1955      *Canadian Geotechnical Journal* National Research Council Canada,2006  
*Scientific American* ,1903 Monthly magazine devoted to topics of general scientific interest      **CANCAM 77** ,1977

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