

Example 7 – Diving Board

- Diver 58 kg, no board weight
- Positions 0m, 1m, 3m
- Free body diagram

- $\sum F_x = 0$

No forces in x

- $\sum F_y = 0$

$$F_A + F_B - (58 \text{ kg}) \left(9.8 \frac{\text{m}}{\text{s}^2} \right) = 0$$

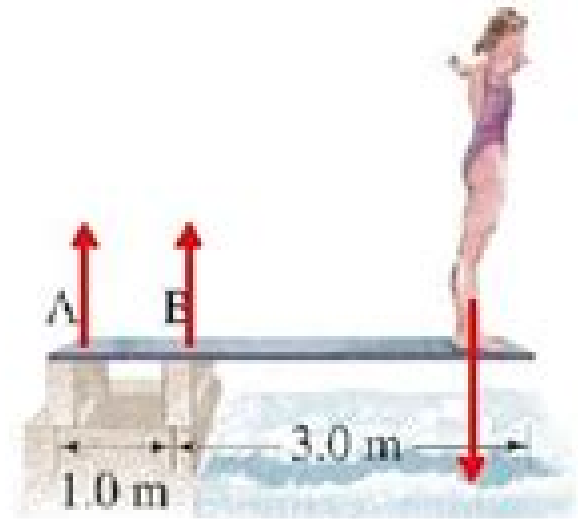
$$F_A + F_B = 568.4 \text{ N}$$

- $\sum \tau_B = 0$

$$-(F_A)(1\text{m}) + (F_B)(0\text{m}) - (568.4\text{N})(3\text{m}) = 0 \quad (\text{all angles } 90^\circ)$$

$$F_A = -1705 \text{ N} \quad (\text{OK, we just assumed wrong direction})$$

$$F_B = 2273 \text{ N}$$



Mastering Physics Answers Static Equilibrium

Team Prabhat



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Mastering Physics for IIT-JEE Volume - I Rathi Rakesh, Physics for IIT JEE **The Hidden Curriculum - Faculty Made Tests in Science** Sheila Tobias, 1997 **AISTSSE 2018** Martina Restuati, Herbert Sipahutar, Juniastel Rajagukguk, 2019-10-04 This book contains the proceedings of the The 5th Annual International Seminar on Trends in Science and Science Education AISTSSE and The 2nd International Conference on Innovation in Education Science and Culture ICIESC where held on 18 October 2018 and 25 September 2018 in same city Medan North Sumatera Both of conferences were organized respectively by Faculty of Mathematics and Natural Sciences and Research Institute Universitas Negeri Medan The papers from these conferences collected in a proceedings book entitled Proceedings of 5th AISTSSE In publishing process AISTSSE and ICIESC were collaboration conference presents six plenary and invited speakers from Australia Japan Thailand and from Indonesia Besides speaker around 162 researchers covering lecturers teachers participants and students have attended in this conference The researchers come from Jakarta Yogyakarta Bandung Palembang Jambi Batam Pekanbaru Padang Aceh Medan and several from Malaysia and Thailand The AISTSSE meeting is expected to yield fruitful result from discussion on various issues dealing with challenges we face in this Industrial Revolution RI 4.0 The purpose of AISTSSE is to bring together professionals academics and students who are interested in the advancement of research and practical applications of innovation in education science and culture The presentation of such conference covering multi disciplines will contribute a lot of inspiring inputs and new knowledge on current trending about Mathematical Sciences Mathematics Education Physical Sciences Physics Education Biological Sciences Biology Education Chemical Sciences Chemistry Education and Computer Sciences Thus this will contribute to the next young generation researches to produce innovative research findings Hopely that the scientific attitude and skills through research will promote Unimed to be a well known university which persist to be developed and excelled Finally we would like to express greatest thankful to all colleagues in the steering committee for cooperation in administering and arranging the conference Hopefully these seminar and conference will be continued in the coming years with many more insight articles from inspiring research We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks We hope to meet you again for the next conference of AISTSSE **Japan at the Millennium** David W. Edgington, 2003 Japan today is at an important historical juncture Buffeted in recent years by rapid economic social and political change yet still very much steeped in custom and history the nation has become an amalgam of the traditional and the modern As a result the country has become increasingly difficult to categorize How are we to represent today's Japan effectively and fairly predict its future This critical multi disciplinary collection explores the convergence of past and future in contemporary Japan Contributors comment on a wide range of economic socio cultural and political trends such as the mobilization of Japanese labour the burgeoning Ainu identity movement and the shifting place of the modern woman and

conclude that despite the rapid changes many of the traditional facets of Japanese society have remained intact institutional change they assert is unlikely to occur quickly and Japan must find alternate ways to adjust to twenty first century pressures of global competition and interdependence A pleasure to read this broad volume will be welcomed by upper level undergraduates graduates and specialists in Japanese studies

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