

## FP1 – Conics Questions

[June 2013] 4.

The rectangular hyperbola  $H$  has Cartesian equation  $xy = 4$ .

The point  $P\left(2t, \frac{2}{t}\right)$  lies on  $H$ , where  $t \neq 0$ .

(a) Show that an equation of the normal to  $H$  at the point  $P$  is

$$ty - t^3x = 2 - 2t^4 \quad (5)$$

The normal to  $H$  at the point where  $t = -\frac{1}{2}$  meets  $H$  again at the point  $Q$ .

(b) Find the coordinates of the point  $Q$ . (4)

[June 2013] 6.

A parabola  $C$  has equation  $y^2 = 4ax$ ,  $a > 0$

The points  $P(ap^2, 2ap)$  and  $Q(aq^2, 2aq)$  lie on  $C$ , where  $p \neq 0$ ,  $q \neq 0$ ,  $p \neq q$ .

(a) Show that an equation of the tangent to the parabola at  $P$  is

$$py - x = ap^2 \quad (4)$$

(b) Write down the equation of the tangent at  $Q$ . (1)

The tangent at  $P$  meets the tangent at  $Q$  at the point  $R$ .

(c) Find, in terms of  $p$  and  $q$ , the coordinates of  $R$ , giving your answers in their simplest form. (4)

Given that  $R$  lies on the directrix of  $C$ ,

(d) find the value of  $pq$ . (2)

## June 2013 Fp1 Past Paper

**Leszek Rutkowski, Marcin  
Korytkowski, Rafal Scherer, Ryszard  
Tadeusiewicz, Lotfi A. Zadeh, Jacek M.  
Zurada**

## June 2013 Fp1 Past Paper:

**Uneasy Partnership** Geoffrey Hale, 2018-01-25 The Canadian government's pursuit of economic growth is central to its economic policy and to the nature of its relationship with the business community. The government depends on business investment for economic growth vital to the prosperity of citizens, the generation of tax revenues and enough public satisfaction to win re-election. Businesses depend on the government for stable sets of rules that are necessary for success. They often look to governments for protection against threats to their well-being and for assistance in competing with other businesses. In this new edition of *Uneasy Partnership*, Geoffrey Hale examines the interdependent relationship between Canadian governments and businesses, considering the political role of the government in the economy and what effect this has on the business environment. Hale provides an overview of the historical dimensions of Canada's political economy and relations between government and business, giving readers background to consider topics such as corporate power, the implications of Canada's economic structure, regional economic differences and the role of interest groups in political and policy processes among others. In a thoughtful and well-researched style, Hale lays out how the partnership between business and government in Canada is an uneasy one and one whose capacity to adapt to ongoing changes is essential in an uncertain world.

**Neural Oscillations in Physiology and Neuropsychiatric Disorders** Shozo Tobimatsu, Atsushi

Nambu, 2022-10-11

**Algal Technologies for Wastewater Treatment and Resource Recovery** Raul Muñoz, Hardy Temmink, Anthony M. Verschoor, Peter van der Steen, 2019-07-26 Over 80% of globally produced wastewater receives little or no treatment before it is disposed into the environment. Therefore, it is urgent to develop new wastewater treatment technologies that are sustainable in the broad sense of the word, i.e. not only produce high quality effluents but also minimise energy expenses, recover energy and nutrients and apply technology that is appropriate in relation to the availability of skilled personnel. This book compiles the main outcomes of recent efforts to improve the design of waste stabilisation ponds and confirms the superior performance of high rate algal ponds as a result of process intensification. Anaerobic digestion devoted to biogas production continues to be the preferred strategy for the energy valorisation of the algal biomass. Co-digestion with multiple high C/N ratio substrates is gathering significant attention over the past years. The potential of algal biomass as a biosorbent for heavy metal removal (Cu, Ni, F) maintains its share in the research field of water bioremediation, while research on nutrient removal has focused on providing new insights on the mechanism of nitrogen and phosphorus removal from wastewater in algal-bacterial systems. Finally, it is worth noticing that breakthroughs in complementary fields of research, such as nanotechnology or lighting technology, are gradually being implemented in algal biotechnology with new products such as nanoparticles for water disinfection or photobioreactors illuminated by low intensity LED panels. In Focus, a book series that showcases the latest accomplishments in water research. Each book focuses on a specialist area with papers from top experts in the field. It aims to be a vehicle for in-depth understanding and inspire further conversations in the sector.

*The Director and The Manager* David S. Fushtey, 2019-02-01 Machiavelli Had it Easy is an engaging text for the emerging discipline of governance Gaps arise when directors and managers come together from diverse vocational and cultural languages and interests Compressed information streams in the digital age yet few reconcile silos of business legal expertise and regulatory public interests for informed decisions This text presents research and a market tested decision framework for comparative law market practice and human nature in the vital strategic oversight role of governance Informed by cognitive science business practice and legal duties one conclusion is that bias and self interests are instinctive but reconciling best interests is not Too often lessons learned from centuries of law are overlooked The chapters are a dozen inquiries into recurring problems in the boardroom Part one is an entry level technical reference of law and governance principles Unique appendices of keywords and case notes will aid those new to markets governed by the western rule of law and those tripping on gaps in comparative jargon Part two is a series of practical hot topics in the context of law and governance part three looks to next steps in accountability and liability The text will help accountants engineers lawyers and business operations and market policy experts from around the world work together and professors professionals and students anticipate change After drilling through accountability and liability for hybrid organizations typical crises are revealed to be from a lack of aligning interests and related information churn Conclusions of the how and why of governance systems link the human condition and the rule of law in the digital age

#### **Artificial Intelligence and Soft Computing**


Leszek Rutkowski, Marcin Korytkowski, Rafal Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2013-06-04 The two volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing ICAISC 2013 held in Zakopane Poland in June 2013 The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions The 56 papers included in the second volume are organized in the following topical sections evolutionary algorithms and their applications data mining bioinformatics and medical applications agent systems robotics and control artificial intelligence in modeling and simulation and various problems of artificial intelligence

*Women in Management Worldwide* Ronald J. Burke, Astrid M. Richardsen, 2016-08-12 Organizations today are facing unprecedented challenges including an ageing workforce potential talent shortages an increasingly competitive international environment and the need to utilize the talents of the best qualified people regardless of gender More women than men in many cases are graduating from universities and gaining the requisite experience to qualify for advancement to higher levels of management In this expanded and revised third edition Professors Burke and Richardsen together with a list of international contributors address women's progression in the workforce and into the upper echelons of management They cover a range of professions and a geographically dispersed territory thereby advancing the understanding of women in management within a traditional context and making a substantial contribution to the literature for both an academic and practitioner audience The broader regional perspective offers a comprehensive

overview of the challenges and opportunities facing women in the workplace and promotes the ongoing analysis of the interface between women's career aspirations and societal and organizational norms, assumptions and values. Following the same format as the previous edition, the country-by-country analysis allows for the data between countries and regions to be compared for the differences to be addressed and a more holistic picture of the situation in a given country to be assessed. *Women in Management Worldwide* will appeal to researchers, policy makers in a range of countries interested in workforce issues, talent management and gender equality as well as consultants working with international organizations on HRM and organizational effectiveness challenges.

**PHealth 2014** B. Blobel, S. Sauermann, A. Mense, 2014-05-30

Microsystems, smart textiles, telemedicine, mobile computing, smart implants, sensor-controlled medical devices and innovative sensor and actuator principles and techniques have become important enablers not only for monitoring, diagnosis and treatment in both inpatient and outpatient care but also for personalized, preventive, predictive, participative systems medicine. This book contains the proceedings of pHealth 2014, the 11th in a series of successful international conferences on wearable or implantable micro and nano technologies for personalized medicine, held in Vienna, Austria, in June 2014. This conference combined the presentation of emerging principles, future visions and use with a careful analysis of lessons learned from international and national research and development activities and practical solutions. Included here are the keynotes as well as the oral presentations and poster presentations selected after having been checked by three independent reviewers for inclusion in the conference. The new EU Framework Program for Research and Innovation Horizon 2020, addressing pHealth implementation by focusing on technology transfer, support and building ecosystems and value chains to ensure better time to market and higher impact of knowledge-based technologies, is properly reflected as well. The advances made so far in this field are just the beginning of evolutionary and revolutionary changes which will offer significant opportunities for patients and healthcare professionals alike and this book will be of interest to all those developing, providing or receiving such healthcare services.

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**Trump Trudeau Tweets Truth** Bill Fox, 2022-03-23

Media has long been considered a primary site for political discourse in Western liberal democracies but now, with the advent of social media, giant multinational digital platforms such as Google and online journalism, the way we do politics, talk politics and cover politics has completely transformed. *Trump Trudeau Tweets Truth* considers the ways that technology has led to an irreversible transition in power distribution, political journalism and public discourse. Discussing how the military-industrial complex of the 1950s gave way to today's celebrity distribution complex, Bill Fox examines the amount of power accorded to people well known for being well known, from Donald Trump to Justin Trudeau. Taking on a Canadian perspective, Fox addresses the disturbing cries of fake news in the post-truth age and demonstrates how journalism, no longer the domain of a select few political reporters and editors, has become decentralized and disaggregated. In a world that now plays out on mobile devices, *Trump Trudeau Tweets Truth* seeks a path through the debris left behind by recent seismic shifts.

in political media and technology

### **Using Neurophysiological Signals that Reflect Cognitive or Affective State**

Anne-Marie Brouwer, Thorsten O. Zander, Jan B. F. van Erp, 2015-07-27 What can we learn from spontaneously occurring brain and other physiological signals about an individual's cognitive and affective state and how can we make use of this information? One line of research that is actively involved with this question is Passive Brain Computer Interfaces (BCI). To date, most BCIs are aimed at assisting patients for whom brain signals could form an alternative output channel as opposed to more common human output channels like speech and moving the hands. However, brain signals possibly in combination with other physiological signals also form an output channel above and beyond the more usual ones; they can potentially provide continuous online information about an individual's cognitive and affective state without the need of conscious or effortful communication. The provided information could be used in a number of ways. Examples include monitoring cognitive workload through EEG and skin conductance for adaptive automation or using ERPs in response to errors to correct for a behavioral response. While Passive BCIs make use of online neurophysiological responses and close the interaction cycle between a user and a computer system, neurophysiological responses can also be used in an offline fashion. Examples of this include detecting amygdala responses for neuromarketing and measuring EEG and pupil dilation as indicators of mental effort for optimizing information systems. The described field of applied neurophysiology can strongly benefit from high quality scientific studies that control for confounding factors and use proper comparison conditions. Another area of relevance is ethics, ranging from dubious product claims, acceptance of the technology by the general public, privacy of users to possible effects that these kinds of applications may have on society as a whole. In this Research Topic, we aimed to publish studies of the highest scientific quality that are directed towards applications that utilize spontaneously, effortlessly generated neurophysiological signals, brain and/or other physiological signals reflecting cognitive or affective state. We especially welcomed studies that describe specific real world applications demonstrating a significant benefit compared to standard applications. We also invited original new kinds of proposed applications in this area as well as comprehensive review articles that point out what is and what is not possible according to scientific standards in this field. Finally, we welcomed manuscripts on the ethical issues that are involved. Connected to the Research Topic was a workshop held on June 6 during the Fifth International Brain Computer Interface Meeting, June 3-7, 2013, Asilomar, California, that brought together a diverse group of people who were working in this field. We discussed the state of the art and formulated major challenges as reflected in the first paper of the Research Topic.

### **What is Musical Creativity? Interdisciplinary Dialogues and Approaches**

Andrea Schiavio, David Michael Bashwiner, Rex Eugene Jung, 2022-01-12

### **Managing Federalism through Pandemic**

Kathy L. Brock, Geoffrey Hale, 2023-11-07 Managing Federalism through Pandemic summarizes and analyses multiple policy dimensions of Canada's response to the COVID-19 pandemic and related policy issues from the perspective of Canadian federalism. Contributors address the relative effectiveness of intergovernmental cooperation at the summit level and in policy

fields including emergency management public health national security Indigenous Peoples and governments border governance crisis communications fiscal federalism income security policies CERB supply chain resilience and interacting energy and climate policies Despite serious policy failures of individual governments repeated fluctuations in the overall effectiveness of pandemic management and growing public frustration across provinces and regions contributors show how processes for intergovernmental cooperation adapted reasonably well to the pandemic s unprecedented stresses particularly at the outset The book concludes that despite individual policy failures Canada s decentralized approach to policy management often enabled regional adaptation to varied conditions helped to contain serious policy failures and contributed to various degrees of policy learning across governments Managing Federalism through Pandemic reveals how the pandemic exposed structural policy weaknesses which transcend federalism but have significant implications for how governments work together or don t to promote the well being of citizens

**Human Frailties** Ronald J. Burke,Suzy Fox,2016-05-13

Every day we hear stories about the consequences of human frailties for individuals their families and friends and their organizations Some of these stories are about alcohol and drug addiction and other harmful lifestyle choices but human frailty also leads to all kinds of unethical and illegal behaviour Individuals are convicted of bribery and corruption price fixing theft and fraud sexual harassment and abuse of authority Politicians fiddle their expenses sports people cheat and fix matches and school and university students and teachers cheat to enhance exam results Studies have shown that business students cheat more than others and efforts to teach ethical behaviour in business schools make little difference The media who bring us stories of others frailties themselves engage in unethical and illegal conduct in pursuit of an edge over their rivals The contributions to this latest addition to Gower s Psychological and Behavioural Aspects of Risk Series place the spotlight on individuals their behavioural choices and the consequences that follow for theirs and others lives and careers The conclusion is that people do have choices and options and that whilst there are no easy or quick fixes in addressing self limiting behaviours successful avoidance of the worst outcomes can be achieved This book provides guidance on the practical steps that need to be taken in order to gain a sense of proportion of what is important and of how we are doing if we are to address our frailties and stop making unethical choices

*Disasters Without Borders* John Hannigan,2013-04-17

Dramatic scenes of devastation and suffering caused by disasters such as the 2011 Japanese earthquake and tsunami are viewed with shock and horror by millions of us across the world What we rarely see however are the international politics of disaster aid mitigation and prevention that condition the collective response to natural catastrophes around the world In this book respected Canadian environmental sociologist John Hannigan argues that the global community of nations has failed time and again in establishing an effective and binding multilateral mechanism for coping with disasters especially in the more vulnerable countries of the South Written in an accessible and even handed manner Disasters without Borders it is the first comprehensive account of the key milestones debates controversies and research relating to the international politics of

natural disasters Tracing the historical evolution of this policy field from its humanitarian origins in WWI right up to current efforts to cast climate change as the prime global driver of disaster risk it highlights the ongoing mismatch between the way disaster has been conceptualised and the institutional architecture in place to manage it The book s bold conclusion predicts the confluence of four emerging trends politicisation militarisation catastrophic scenario building privatisation of risk and quantification which could create a new system of disaster management wherein insurance logic will replace humanitarian concern as the guiding principle Disasters Without Borders is an ideal introductory text for students lecturers and practitioners in the fields of international development studies disaster management politics and international affairs and environmental geography sociology     Navigating a Changing World Geoffrey Hale,Greg Anderson,2021-05-05 This volume addresses the governance and evolution of Canada s international policies and the challenges facing Canada s international policy relations on multiple fronts



## Decoding **June 2013 Fp1 Past Paper**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**June 2013 Fp1 Past Paper**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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web jun 15 2023 in broad terms deep learning is a subset of machine learning and machine learning is a subset of artificial intelligence you can think of them as a series of overlapping concentric circles with ai occupying the largest followed by machine learning then deep learning

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web deep learning is a type of machine learning that teaches computers to perform tasks by learning from examples much like humans do imagine teaching a computer to recognize cats instead of telling it to look for whiskers ears and a tail you show it thousands of pictures of cats

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