

Chapter 13, Problem 14. Show that the nilpotent elements of a commutative ring form a subring.

**Solution:** Let  $S$  be the set of nilpotent elements of a commutative ring. Since  $0 \in S$ ,  $S$  is nonempty. So, suppose  $a, b \in S$ , then there exist positive integers  $h$  and  $k$  with  $a^h = b^k = 0$ . Notice that if  $b^k = 0$ ,  $(-b)^k = 0$  since for even  $k$  the two are equal and for odd  $k$ , they are additive inverses (and the additive inverse of 0 is 0). Now, consider  $(a - b)^{h+k}$ :

$$\begin{aligned} (a - b)^{h+k} &= \sum_{i=0}^{h+k} \binom{h+k}{i} a^{h+k-i} (-b)^i \\ &= \sum_{i=0}^h \binom{h+k}{i} a^{h+k-i} (-b)^i + \sum_{i=k+1}^{h+k} \binom{h+k}{i} a^{h+k-i} (-b)^i \end{aligned}$$

Since  $a^h = 0$  and  $(-b)^k = 0$ , and each term in the first summation is the product of  $a^h$  with some other ring element, and each term in the second summation is the product of  $(-b)^k$  with some other ring element, each term in each sum is equal to 0, as is this sum. Hence,  $(a - b) \in S$ .

Now, let  $a$  and  $b$  be as above. Since  $R$  is a commutative ring, we can write  $(ab)^h = a^h b^h = 0 \cdot b^h = 0 = b^h \cdot 0 = b^h a^h = (ba)^h$ , hence  $ba = ab \in S$ . So, by the subring test,  $S$  is a subring of  $R$ .

Chapter 13, Problem 42. Let  $R$  be a commutative ring with unity 1 and prime characteristic. If  $a \in R$  is nilpotent, prove that there is a positive integer  $k$  such that  $(1 + a)^k = 1$ .

**Solution:** Let  $R$  be as specified above, and let  $p$  be the characteristic of  $R$ . Let  $a$  be a nilpotent element of  $R$  with  $a^n = 0$ . Since  $p$  is prime,  $p > 1$ , and so we can find some positive integer  $i$  with  $p^i > n$ . Then, by Problem 41 part b) we have  $(1 + a)^{p^i} = 1^{p^i} + a^{p^i} = 1 + a^n a^{p^i - n} = 1 + 0 = 1$ .

Chapter 14, Problem 34. Let  $R$  be a ring and let  $I$  be an ideal of  $R$ . Prove that the factor ring  $R/I$  is commutative if and only if  $rs - sr \in I$  for all  $r$  and  $s$  in  $R$ .

**Solution:** ( $\Rightarrow$ ) Suppose  $R/I$  is a commutative ring. Let  $r, s \in R$ . Then  $rs + I = (r + I)(s + I) = (s + I)(r + I) = sr + I$ , and adding the additive inverse of  $sr$  to both sides, we have  $rs - sr + I = sr - sr + I = 0 + I = I$ . Hence,  $rs - sr \in I$ .

( $\Leftarrow$ ) Let  $r + I$  and  $s + I$  be arbitrary elements of  $R/I$ . Now, suppose  $rs - sr \in I$ . Then  $rs - sr + I = I$ , and  $rs + I = sr + I$ . But  $rs + I = (r + I)(s + I)$  and  $sr + I = (s + I)(r + I)$ , so we have  $(r + I)(s + I) = (s + I)(r + I)$  for these arbitrary elements of the ring  $R/I$ , hence  $R/I$  is commutative.

Chapter 14, Problem 42. Let  $R$  be a commutative ring and let  $A$  be any ideal of  $R$ . Show that the nil radical of  $A$ ,  $N(A) = \{r \in R \mid \exists n \in \mathbb{Z} \text{ s.t. } r^n \in A\}$ , is an ideal of  $R$ .

**Solution:** Notice that any element of  $A$  will be an element of  $N(A)$ , hence  $N(A)$  is nonempty. Now, suppose  $a, b \in N(A)$ . Then there exist positive integers  $h$  and  $k$  with  $a^h, b^k \in A$ . Notice

# Abstract Algebra Homework Solutions

**Allen C. Hibbard, Ellen J. Maycock**



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web the model course is designed to provide trainees with knowledge and skills in managing crowds this covers the mandatory competences and the required knowledge understanding and proficiencies specified in paragraph 3 of section a v 2 and table a v 2 1 of the stcw code

*training for assessors dnv* - Nov 06 2022

web objectives those who successfully complete the course will be able to perform on board assessments as well as undertake all the responsibilities expected of assessors within their field of expertisem as per imo model course 1 30 the course incorporates also important elements of the imo model course 3 12 entrance requirements

*imo model courses* - Jul 14 2023

web the imo has developed a range of training courses to address all aspects of oil spill planning response and management these are known as the oprc model courses these courses have been designed and developed by an international group of experts from governments and industry

**e course booklet on marine accident and** - Oct 05 2022

web this intensive course based on imo model course 3 11 is aimed at assisting the national marine accident investigation authorities in ensuring uniformity and consistency when carrying out investigations into marine casualties and incidents

**imo lms all courses international maritime organization** - Mar 10 2023

web 25 years ago imo developed four training courses to address various aspects of oil spill response planning preparedness and management these are known as the oprc model courses and have been completed by many individuals around the world who are responsible for the oversight and management of an effective response to a marine oil

*port state control imssea* - Jan 08 2023

web this course based on imo model course 3 09 is designed for government technical officials particularly ship surveyors masters chief officers chief and second engineers who are authorized or to be authorized by their relevant governments to execute port state control psc in accordance with the relevant provisions of imo conventions

**international convention on standards of training certification imo** - Dec 07 2022

web imo model courses maritime administrations maritime training institutes stcw f convention

*imo model courses* - Jun 13 2023

web Élément humain imo model courses the programme of model training courses developed out of suggestions from a number of imo member governments following the adoption of the international convention on standards of training certification and watchkeeping for seafarers stcw 1978 as amended

company security officer cso training course dnv - Jun 01 2022

web objectives provision of internationally recognised training for qualification as company security officer cso in accordance with the standard of competence as outlined in the guidelines on training and certification for company security officers issued as annex of msc circ 1154 and the imo model course 3 20

**train the trainer for the maritime industry dnv** - Aug 03 2022

web the course incorporates important elements of the imo model course 6 09 training course for instructors in order to preserve a high quality learning environment the number of participants is limited to 10 the course focuses on training requirements of stcw solas marpol ism and isps code the importance of objectives and feedback

**imo e learning and training** - Dec 27 2021

web these e learning courses hosted by imo have been carefully designed and would be regularly updated to meet the changing needs of the maritime industry and cover a wide range of topics for the list of available courses and information on the registration process please click here

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