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A Course in Abstract Algebra, 5th Edition Public Administration in India AI-Centric Modeling and Analytics Smart Healthcare Systems A Course in Abstract Algebra, 4th Edition *Khanna V.K. & Bhamri S.K Krishna K Tummala Alex Khang Pankaj Bhambri V.K. Khanna & S.K Bhamri*

designed for undergraduate and postgraduate students of mathematics the book can also be used by those preparing for various competitive examinations the text starts with a brief introduction to results from set theory and number theory it then goes on to cover groups rings fields and linear algebra the topics under groups include subgroups finitely generated abelian groups group actions solvable and nilpotent groups the course in ring theory covers ideals embedding of rings euclidean domains pids ufds polynomial rings noetherian artinian rings topics of field include algebraic extensions splitting fields normal extensions separable extensions algebraically closed fields galois extensions and construction by ruler and compass the portion on linear algebra deals with vector spaces linear transformations eigen spaces diagonalizable operators inner product spaces dual spaces operators on inner product spaces etc the theory has been strongly supported by numerous examples and worked out problems there is also plenty of scope for the readers to try and solve problems on their own new in this edition a full section on operators in inner product spaces complete survey of finite groups of order up to 15 and wedderburn theorem on finite division rings addition of around one hundred new worked out problems and examples alternate and simpler proofs of some results a new section on quick recall of various useful results at the end of the book to facilitate the reader to get instant answers to tricky questions

this book shares new methodologies technologies and practices for resolving issues associated with leveraging ai centric modeling data analytics machine learning aided models internet of things driven applications and cybersecurity techniques in the era of industrial revolution

4 0 ai centric modeling and analytics concepts technologies and applications focuses on how to implement solutions using models and techniques to gain insights predict outcomes and make informed decisions this book presents advanced ai centric modeling and analysis techniques that facilitate data analytics and learning in various applications it offers fundamental concepts of advanced techniques technologies and tools along with the concept of real time analysis systems it also includes ai centric approaches for the overall innovation development and implementation of business development and management systems along with a discussion of ai centric robotic process automation systems that are useful in many government and private industries this reference book targets a mixed audience of engineers and business analysts researchers professionals and students from various fields

recently the fields of artificial intelligence ai and the internet of things iot have revolutionized numerous industries including healthcare the convergence of ai and iot has given birth to smart healthcare systems transforming the way we deliver receive and experience healthcare services this book explores the profound impact of these technologies on healthcare and presents a comprehensive overview of their applications challenges and prospects smart healthcare systems ai and iot perspectives addresses various aspects of how smart healthcare can be used to detect and analyze diseases the underlying methodologies and related security concerns it also discusses healthcare as a multidisciplinary field that involves a range of sectors such as the financial system social factors health technologies and organizational structures that affect individuals families institutions organizations and populations healthcare the book presents the goals of healthcare services which include patient safety timeliness effectiveness efficiency and equity an outline of what smart healthcare consists of which is m health e health electronic resource management smart and intelligent home services and medical devices is included along with highlights on how ai and iot enabled healthcare technologies are suitable for remote health monitoring including rehabilitation and assisted ambient living rounding the offers of this book out is that it also covers how healthcare analytics can be applied to the data gathered from different areas to improve healthcare at a minimum expense researchers academicians industry r d organizations medical professionals pg students and policymakers in the fields of artificial intelligence the internet of things healthcare informatics biomedical engineering medical informatics and related subjects can use this book to assist them in making appropriate decisions regarding these emerging disciplines

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polynomial rings irreducibility criteria noetherian rings the section on vector spaces deals with linear transformations inner product spaces dual spaces eigen spaces diagonalizable operators etc under fields algebraic extensions splitting fields normal and separable extensions algebraically closed fields galois extensions and construction by ruler and compass are discussed the theory has been strongly supported by numerous examples and worked out problems there is also plenty of scope for the readers to try and solve problems on their own new in this edition learning objectives and summary with each chapter a large number of additional worked out problems and examples alternate proofs of some theorems and lemmas reshuffling rewriting of certain portions to make them more reader friendly

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