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is the topic analog testing and diagnosis timely yes indeed it is testing and diagnosis is an important topic and fulfills a vital need for the electronic industry the testing and diagnosis of digital electronic circuits has been successfuily developed to the point that it can be automated unfortu nately its development for analog electronic circuits is still in its stone age the engineer s intuition is still the most powerful tool used in the industry there are two reasons for this one is that there has been no pressing need from the industry analog circuits are usually small in size sometimes the engineer s experience and intuition are sufficient to fulfill the need the other reason is that there are no breakthrough results from academic re search to provide the industry with critical ideas to develop tools this is not because of a lack of effort both academic and industrial research groups have made major efforts to look into this problem unfortunately the prob lem for analog circuits is fundamentally different from and much more difficult than its counterpart for digital circuits these efforts have led to some important findings but are still not at the point of being practically useful however these situations are now changing the current trend for the design of vlsi chips is to use analog digital hybrid circuits instead of digital circuits from the past therefore even ix x preface though the analog circuit may be small the total circuit under testing is large

since a new edition of our book has once again become necessary we have as be fore taken the opportunity to include the latest developments in atomic and quantum physics these areas continue to yield new and fascinating experimental and theoret ical results which are of fundamental importance and are also extremely interesting to students of science as a result of newly developed experimental methods and theoretical techniques it has also become possible to find solutions to some long es tablished problems in this spirit we have added an entire new chapter dealing with entangled wavefunctions the einstein podolsky rosen paradox bell s inequalities the paradox of schrodinger s cat and the concept of decoherence in addition we have treated new ideas relating to quantum computers and the numerous quantum physical schemes for constructing them these new concepts exemplify the rapidly developing area of quantum information finally in this new chapter we have included the experimental realisation of the bose einstein condensation and of the atom laser which promise important new ap plications in chap 22 modern methods of optical spectroscopy we have added a new section on nondestructive photon detection as an example of efficient methods for investigating the interactions between atoms and photons in resonant cavities con sidering the current importance of these areas we emphasize references to the original literature these can be found in the bibliography

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choose the proper statistical method for your sensory data issue analyzing sensory data with r gives you the foundation to analyze and interpret sensory data the book helps you find the most appropriate statistical method to tackle your sensory data issue covering quantitative qualitative and affective approaches the book presents the big picture of sensory evaluation through an integrated approach that connects the different dimensions of sensory evaluation you ll understand the reasons why sensory data are collected the ways in which the data are collected and analyzed the intrinsic meaning of the data the interpretation of the data analysis results each chapter corresponds to one main sensory topic the chapters start with presenting the nature of the sensory evaluation and its objectives the sensory particularities related to the sensory evaluation details about the data set obtained and the statistical analyses required using real examples the authors then illustrate step by step how the analyses are performed in r the chapters conclude with variants and extensions of the methods that are related to the sensory task itself the statistical methodology or both

this is the first comprehensive study of an east african lake for thirty years it represents the culmination of research expeditions which stretch back twenty years and is thus able to pick up long term changes which the individual research activities do not reveal lake naivasha is a tropical lake whose natural fluctuations are now dwarfed by human impacts papers show how the irrigation for horticulture and power cooling has reduced the lake depth significantly exotic arrivals have altered the plant community beyond recognition and its commercial value as a fishery and a tourist feature are reduced by over use despite this the lake has considerable conservation value at present it provides a different case study in the ever growing library of the effects of human follies lake naivasha has achieved global importance in the past ten years because its waters are used to sustain the largest horticultural industry in africa the book highlights its fragility under such pressure and points out the way towards sustainable use of the water and the ecosystem

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