

## CHAPTER 54 COMMUNITY ECOLOGY STUDY GUIDE ANSWERS

CHAPTER 54 COMMUNITY ECOLOGY STUDY GUIDE ANSWERS

CHAPTER 54 COMMUNITY ECOLOGY STUDY GUIDE ANSWERS COMMUNITY ECOLOGY IS A CAPTIVATING FIELD OF STUDY THAT EXPLORES THE INTRICATE RELATIONSHIPS BETWEEN SPECIES WITHIN A SHARED ENVIRONMENT UNDERSTANDING THESE RELATIONSHIPS FROM COMPETITION AND PREDATION TO MUTUALISM AND COMMENSALISM IS CRUCIAL FOR COMPREHENDING THE DYNAMICS OF ECOSYSTEMS THEIR STABILITY AND THE IMPACTS OF HUMAN ACTIVITIES THIS STUDY GUIDE PROVIDES COMPREHENSIVE ANSWERS TO KEY CONCEPTS AND QUESTIONS RELATED TO CHAPTER 54 FOCUSING ON COMMUNITY ECOLOGY

### I COMMUNITY STRUCTURE AND COMPOSITION

1 DEFINE COMMUNITY IN ECOLOGICAL TERMS A COMMUNITY IN ECOLOGICAL TERMS REFERS TO A GROUP OF INTERACTING SPECIES LIVING IN A PARTICULAR AREA AT A GIVEN TIME IT ENCOMPASSES ALL THE POPULATIONS OF DIFFERENT SPECIES THAT INHABIT A SPECIFIC HABITAT AND INTERACT WITH EACH OTHER THROUGH VARIOUS ECOLOGICAL PROCESSES

2 WHAT ARE THE KEY FACTORS THAT INFLUENCE COMMUNITY STRUCTURE THE STRUCTURE OF A COMMUNITY IS SHAPED BY SEVERAL FACTORS INCLUDING SPECIES RICHNESS THE NUMBER OF DIFFERENT SPECIES PRESENT IN THE COMMUNITY SPECIES EVENNESS THE RELATIVE ABUNDANCE OF EACH SPECIES IN THE COMMUNITY TROPHIC STRUCTURE THE FEEDING RELATIONSHIPS AMONG SPECIES IN THE COMMUNITY OFTEN DEPICTED IN A FOOD WEB DOMINANT SPECIES SPECIES WITH THE HIGHEST ABUNDANCE OR BIOMASS IN THE COMMUNITY EXERTING A STRONG INFLUENCE ON OTHER SPECIES KEYSTONE SPECIES SPECIES THAT HAVE A DISPROPORTIONATELY LARGE IMPACT ON THE COMMUNITY STRUCTURE DESPITE THEIR RELATIVELY LOW ABUNDANCE FOUNDATION SPECIES SPECIES THAT CREATE OR MODIFY HABITATS INFLUENCING THE COMMUNITY STRUCTURE SIGNIFICANTLY

3 EXPLAIN THE DIFFERENCE BETWEEN SPECIES RICHNESS AND SPECIES EVENNESS SPECIES RICHNESS REFERS TO THE TOTAL NUMBER OF DIFFERENT SPECIES PRESENT IN A COMMUNITY IT 2 SIMPLY QUANTIFIES THE DIVERSITY OF SPECIES IN THE COMMUNITY SPECIES EVENNESS ON THE OTHER HAND REFLECTS THE RELATIVE ABUNDANCE OF EACH SPECIES A COMMUNITY WITH HIGH SPECIES EVENNESS INDICATES THAT ALL SPECIES ARE PRESENT IN ROUGHLY EQUAL NUMBERS WHILE LOW EVENNESS IMPLIES A FEW DOMINANT SPECIES AND MANY RARE ONES

4 HOW CAN YOU QUANTIFY COMMUNITY STRUCTURE SEVERAL METHODS ARE EMPLOYED TO QUANTIFY COMMUNITY STRUCTURE INCLUDING SPECIES DIVERSITY INDICES THESE INDICES SUCH AS THE SHANNON INDEX AND SIMPSON INDEX COMBINE BOTH SPECIES RICHNESS AND EVENNESS TO PROVIDE A COMPREHENSIVE MEASURE OF DIVERSITY RANKABUNDANCE CURVES THESE CURVES DEPICT THE RELATIVE ABUNDANCE OF SPECIES IN A COMMUNITY WITH THE MOST ABUNDANT SPECIES RANKED FIRST FOOD WEB ANALYSIS THIS APPROACH EXAMINES THE TROPHIC INTERACTIONS WITHIN THE COMMUNITY REVEALING THE FLOW OF ENERGY AND NUTRIENTS

### II INTERSPECIFIC INTERACTIONS

1 DESCRIBE THE FIVE MAIN TYPES OF INTERSPECIFIC INTERACTIONS INTERSPECIFIC INTERACTIONS REFER TO THE RELATIONSHIPS BETWEEN SPECIES WITHIN A COMMUNITY THE FIVE MAIN TYPES ARE COMPETITION OCCURS WHEN TWO OR MORE SPECIES REQUIRE THE SAME LIMITED RESOURCE LEADING TO NEGATIVE IMPACTS ON BOTH SPECIES PREDATION AN INTERACTION WHERE ONE SPECIES PREDATOR KILLS AND CONSUMES ANOTHER SPECIES PREY HERBIVORY A SPECIFIC TYPE OF PREDATION WHERE AN ANIMAL CONSUMES PLANTS PARASITISM A RELATIONSHIP WHERE ONE SPECIES PARASITE BENEFITS AT THE EXPENSE OF ANOTHER SPECIES HOST MUTUALISM A RELATIONSHIP WHERE BOTH INTERACTING SPECIES BENEFIT FROM THE INTERACTION COMMENSALISM A RELATIONSHIP WHERE ONE SPECIES BENEFITS WHILE THE OTHER IS NEITHER HARMED NOR HELPED

2 PROVIDE EXAMPLES OF EACH TYPE OF INTERACTION COMPETITION LIONS AND HYENAS COMPETING FOR THE SAME PREY PREDATION A WOLF HUNTING AND KILLING A MOOSE HERBIVORY A DEER GRAZING ON GRASS PARASITISM A TAPEWORM LIVING INSIDE THE INTESTINES OF A HUMAN

3 MUTUALISM BEES POLLINATING FLOWERS WHILE COLLECTING NECTAR COMMENSALISM BARNACLES GROWING ON THE SKIN OF A WHALE BENEFITING FROM THE WHALES MOVEMENT

3 EXPLAIN THE CONCEPT OF COMPETITIVE EXCLUSION COMPETITIVE EXCLUSION PRINCIPLE STATES THAT TWO SPECIES CANNOT COEXIST INDEFINITELY IF THEY COMPETE FOR THE SAME LIMITED RESOURCE THE SPECIES WITH A COMPETITIVE ADVANTAGE WILL OUTCOMPETE THE OTHER LEADING TO THE EXCLUSION OF THE LESS COMPETITIVE SPECIES

4 HOW CAN SPECIES COEXIST DESPITE COMPETITION SPECIES CAN COEXIST DESPITE COMPETITION BY RESOURCE PARTITIONING DIVIDING THE RESOURCES USING DIFFERENT PARTS OF THE SAME RESOURCE OR UTILIZING RESOURCES AT DIFFERENT TIMES CHARACTER DISPLACEMENT EVOLUTIONARY

CHANGES IN TRAITS THAT REDUCE INTERSPECIFIC COMPETITION PREDATION PREDATORS CAN HELP MAINTAIN SPECIES DIVERSITY BY REDUCING THE ABUNDANCE OF DOMINANT COMPETITORS III COMMUNITY DYNAMICS 1 EXPLAIN THE CONCEPT OF ECOLOGICAL SUCCESSION ECOLOGICAL SUCCESSION REFERS TO THE GRADUAL AND SEQUENTIAL CHANGES IN SPECIES COMPOSITION AND STRUCTURE OF A COMMUNITY OVER TIME FOLLOWING A DISTURBANCE IT IS A NATURAL PROCESS THAT LEADS TO THE ESTABLISHMENT OF A MORE STABLE AND DIVERSE COMMUNITY 2 DIFFERENTIATE BETWEEN PRIMARY AND SECONDARY SUCCESSION PRIMARY SUCCESSION OCCURS IN AREAS DEVOID OF LIFE AND SOIL SUCH AS NEWLY FORMED VOLCANIC ISLANDS OR RETREATING GLACIERS PIONEER SPECIES COLONIZE THE BARE SUBSTRATE GRADUALLY ENRICHING THE SOIL AND ALLOWING FOR THE ESTABLISHMENT OF OTHER SPECIES SECONDARY SUCCESSION OCCURS IN AREAS THAT HAVE BEEN DISTURBED BUT STILL RETAIN SOIL AND SEEDS SUCH AS AFTER A FIRE OR A LOGGING EVENT EXISTING SOIL AND SEEDS FACILITATE FASTER RECOLONIZATION AND SUCCESSION COMPARED TO PRIMARY SUCCESSION 3 DISCUSS THE ROLE OF DISTURBANCE IN COMMUNITY DYNAMICS DISTURBANCE PLAYS A CRUCIAL ROLE IN COMMUNITY DYNAMICS IT CAN CREATE OPPORTUNITIES FOR NEW SPECIES TO COLONIZE RESHAPE HABITAT STRUCTURE AND ALTER SPECIES INTERACTIONS HOWEVER THE SEVERITY AND FREQUENCY OF DISTURBANCES CAN SIGNIFICANTLY IMPACT COMMUNITY COMPOSITION AND STABILITY 4 4 EXPLAIN THE INTERMEDIATE DISTURBANCE HYPOTHESIS THE INTERMEDIATE DISTURBANCE HYPOTHESIS PROPOSES THAT SPECIES DIVERSITY IS HIGHEST AT INTERMEDIATE LEVELS OF DISTURBANCE MODERATE DISTURBANCES PREVENT DOMINANT SPECIES FROM MONOPOLIZING RESOURCES ALLOWING FOR GREATER SPECIES COEXISTENCE TOO LITTLE DISTURBANCE CAN LEAD TO COMPETITIVE EXCLUSION WHILE TOO MUCH DISTURBANCE CAN PREVENT THE ESTABLISHMENT OF ANY SPECIES IV COMMUNITY STABILITY AND RESILIENCE 1 DEFINE COMMUNITY STABILITY AND COMMUNITY RESILIENCE COMMUNITY STABILITY THE ABILITY OF A COMMUNITY TO RESIST CHANGE AND MAINTAIN ITS STRUCTURE AND FUNCTION OVER TIME COMMUNITY RESILIENCE THE ABILITY OF A COMMUNITY TO RECOVER FROM DISTURBANCE AND RETURN TO ITS ORIGINAL STATE 2 WHAT FACTORS CONTRIBUTE TO COMMUNITY STABILITY AND RESILIENCE SEVERAL FACTORS INFLUENCE COMMUNITY STABILITY AND RESILIENCE SPECIES DIVERSITY DIVERSE COMMUNITIES ARE GENERALLY MORE STABLE AND RESILIENT AS DIFFERENT SPECIES PLAY UNIQUE ROLES IN MAINTAINING ECOSYSTEM FUNCTIONS TROPHIC COMPLEXITY COMPLEX FOOD WEBS WITH MULTIPLE TROPHIC LEVELS PROVIDE REDUNDANCY AND BUFFER AGAINST DISTURBANCES HABITAT HETEROGENEITY DIVERSE HABITATS OFFER A WIDER RANGE OF RESOURCES AND REFUGE FOR SPECIES ENHANCING STABILITY CLIMATE STABILITY STABLE CLIMATIC CONDITIONS PROMOTE THE ESTABLISHMENT AND PERSISTENCE OF DIVERSE COMMUNITIES 3 HOW CAN HUMAN ACTIVITIES IMPACT COMMUNITY STABILITY AND RESILIENCE HUMAN ACTIVITIES CAN SIGNIFICANTLY ALTER COMMUNITY STABILITY AND RESILIENCE THROUGH VARIOUS MECHANISMS HABITAT LOSS AND FRAGMENTATION REDUCING HABITAT AVAILABILITY AND CONNECTIVITY CAN DISRUPT SPECIES INTERACTIONS AND REDUCE DIVERSITY POLLUTION INTRODUCING POLLUTANTS INTO THE ENVIRONMENT CAN NEGATIVELY AFFECT SPECIES SURVIVAL AND ALTER COMMUNITY STRUCTURE OVEREXPLOITATION HARVESTING SPECIES AT UNSUSTAINABLE RATES CAN DISRUPT TROPHIC INTERACTIONS AND CAUSE POPULATION DECLINES CLIMATE CHANGE SHIFTING CLIMATE PATTERNS CAN ALTER SPECIES RANGES DISRUPT ECOSYSTEM 5 PROCESSES AND THREATEN COMMUNITY STABILITY CONCLUSION COMMUNITY ECOLOGY IS AN ESSENTIAL FIELD FOR UNDERSTANDING THE INTRICATE RELATIONSHIPS BETWEEN SPECIES AND THE DYNAMICS OF ECOSYSTEMS BY STUDYING COMMUNITY STRUCTURE INTERSPECIFIC INTERACTIONS AND SUCCESSION WE GAIN VALUABLE INSIGHTS INTO HOW COMMUNITIES FUNCTION ADAPT TO CHANGE AND RESPOND TO HUMAN ACTIVITIES THIS KNOWLEDGE IS CRUCIAL FOR THE CONSERVATION AND MANAGEMENT OF BIODIVERSITY ENSURING THE RESILIENCE AND STABILITY OF ECOSYSTEMS FOR FUTURE GENERATIONS

COMMUNITY ECOLOGY COMMUNITY ECOLOGY ISSUES IN ECOSYSTEM ECOLOGY: 2013 EDITION CAMPBELL BIOLOGY AUSTRALIAN AND NEW ZEALAND EDITION MARINE ROCKY SHORES AND COMMUNITY ECOLOGY PARASITOID COMMUNITY ECOLOGY COMMUNITY ECOLOGY COMMUNITY ECOLOGY IN A CHANGING WORLD THE AMERICAN NATURALIST COMMUNITY ECOLOGY JOURNAL OF MAMMALOGY ECOLOGY OF MARINE BENTHOS MARINE & FRESHWATER RESEARCH ECOLOGY PREDATION RISK AND COMPETITION IN A COMMUNITY OF RODENTS AND SNAKES GENERAL ECOLOGY BIOLOGICAL & AGRICULTURAL INDEX ECOLOG[?] A DE COMUNIDADES DE PECES EN ESTUARIOS Y LAGUNAS COSTERAS AGRICULTURAL INDEX GARY G. MITTELBAACH PETER J. MORIN JANE B. REECE ROBERT T. PAINE BRADFORD A. HAWKINS JARED M. DIAMOND JOHN H. LAWTON ALAN HASTINGS BRUCE C. COULL AMOS BOUSKILA DAVID T. KROHNE COMMUNITY ECOLOGY COMMUNITY ECOLOGY ISSUES IN ECOSYSTEM ECOLOGY: 2013 EDITION CAMPBELL

BIOLOGY AUSTRALIAN AND NEW ZEALAND EDITION MARINE ROCKY SHORES AND COMMUNITY ECOLOGY  
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COMMUNITY ECOLOGY HAS UNDERGONE A TRANSFORMATION IN RECENT YEARS FROM A DISCIPLINE LARGELY  
 FOCUSED ON PROCESSES OCCURRING WITHIN A LOCAL AREA TO A DISCIPLINE ENCOMPASSING A MUCH RICHER  
 DOMAIN OF STUDY INCLUDING THE LINKAGES BETWEEN COMMUNITIES SEPARATED IN SPACE METACOMMUNITY  
 DYNAMICS NICHE AND NEUTRAL THEORY THE INTERPLAY BETWEEN ECOLOGY AND EVOLUTION ECO EVOLUTIONARY  
 DYNAMICS AND THE INFLUENCE OF HISTORICAL AND REGIONAL PROCESSES IN SHAPING PATTERNS OF BIODIVERSITY  
 TO FULLY UNDERSTAND THESE NEW DEVELOPMENTS HOWEVER STUDENTS CONTINUE TO NEED A STRONG  
 FOUNDATION IN THE STUDY OF SPECIES INTERACTIONS AND HOW THESE INTERACTIONS ARE ASSEMBLED INTO  
 FOOD WEBS AND OTHER ECOLOGICAL NETWORKS THIS NEW EDITION FULFILLS THE BOOK'S ORIGINAL AIMS BOTH AS  
 A MUCH NEEDED UP TO DATE AND ACCESSIBLE INTRODUCTION TO MODERN COMMUNITY ECOLOGY AND IN  
 IDENTIFYING THE IMPORTANT QUESTIONS THAT ARE YET TO BE ANSWERED THIS RESEARCH DRIVEN TEXTBOOK  
 INTRODUCES STATE OF THE ART COMMUNITY ECOLOGY TO A NEW GENERATION OF STUDENTS ADOPTING  
 REASONED AND BALANCED PERSPECTIVES ON AS YET UNRESOLVED ISSUES COMMUNITY ECOLOGY IS SUITABLE FOR  
 ADVANCED UNDERGRADUATES GRADUATE STUDENTS AND RESEARCHERS SEEKING A BROAD UP TO DATE COVERAGE  
 OF ECOLOGICAL CONCEPTS AT THE COMMUNITY LEVEL

COMMUNITY ECOLOGY THE STUDY OF THE PATTERNS AND PROCESSES INVOLVING TWO OR MORE SPECIES HAS  
 DEVELOPED RAPIDLY IN THE LAST TWO DECADES DRIVEN BY NEW AND MORE SOPHISTICATED RESEARCH  
 TECHNIQUES ADVANCES IN MATHEMATICAL THEORY AND MODELING AND THE INCREASING PRESSURE ON THE  
 ENVIRONMENT WROUGHT BY HUMANS ONCE A PURELY DESCRIPTIVE SCIENCE IT IS NOW ONE OF THE MOST  
 FORWARD LOOKING AREAS OF SCIENTIFIC INQUIRY MORIN SKILLFULLY GUIDES THE READER THROUGH THE MAIN  
 TENETS AND CENTRAL CONCEPTS OF COMMUNITY ECOLOGY COMPETITION PREDATION FOOD WEBS INDIRECT  
 EFFECTS HABITAT SELECTION DIVERSITY AND SUCCESSION IN AN ATTEMPT TO INTRODUCE THE READER TO THE  
 MOST BALANCED COVERAGE POSSIBLE MORIN INCLUDES EXAMPLES DRAWN FROM BOTH THE AQUATIC AND  
 TERRESTRIAL REALM AND FROM BOTH PLANT AND ANIMAL SPECIES BALANCING THEORY WITH EXPERIMENTATION  
 AND DRAWING ON EXCITING NEW STUDIES TO COMPLEMENT THE HISTORICAL FOUNDATIONS OF THE DISCIPLINE HE  
 ALSO STRESSES THAT BOTH THE EMPIRICAL AND THEORETICAL APPROACHES ARE NECESSARY TO DRIVE ECOLOGY  
 FORWARD INTO THE NEW MILLENNIUM THE FINAL CHAPTER ON APPLIED COMMUNITY ECOLOGY ABLY DEMONSTRATES  
 HOW COMMUNITY ECOLOGICAL PROCESSES HAVE A WIDE ENVIRONMENTAL RELEVANCE ALTHOUGH IN ITS INFANCY  
 THE APPLICATION OF COMMUNITY ECOLOGY TO EMERGING PROBLEMS IN HUMAN DOMINATED ECOSYSTEMS COULD  
 MITIGATE PROBLEMS AS DIVERSE AS MANAGEMENT STRATEGIES FOR IMPORTANT DISEASES TRANSMITTED BY  
 ANIMALS AND THE RESTORATION AND RECONSTRUCTION OF VIABLE COMMUNITIES REQUIRED READING FOR ALL  
 STUDENTS AND PRACTITIONERS INTERESTED IN COMMUNITY PHENOMENA COMMUNITY ECOLOGY MARKS AN  
 IMPORTANT CONTRIBUTION TO THE DEVELOPMENT OF THIS PROTEAN DISCIPLINE THE FIRST SERIOUS TEXTBOOK  
 FOR A DECADE ON ONE OF THE KEYSTONE SUBDISCIPLINES OF ECOLOGY BROAD TAXONOMIC AND HABITAT  
 COVERAGE SECTION ON IMPLICATIONS OF COMMUNITY ECOLOGY FOR ENVIRONMENTAL ISSUES

ISSUES IN ECOSYSTEM ECOLOGY 2013 EDITION IS A SCHOLARLY EDITIONS BOOK THAT DELIVERS TIMELY  
 AUTHORITATIVE AND COMPREHENSIVE INFORMATION ABOUT RANGELAND ECOLOGY THE EDITORS HAVE BUILT  
 ISSUES IN ECOSYSTEM ECOLOGY 2013 EDITION ON THE VAST INFORMATION DATABASES OF SCHOLARLY NEWS  
 YOU CAN EXPECT THE INFORMATION ABOUT RANGELAND ECOLOGY IN THIS BOOK TO BE DEEPER THAN WHAT YOU  
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 SCIENTISTS ENGINEERS ANALYSTS RESEARCH INSTITUTIONS AND COMPANIES ALL OF THE CONTENT IS FROM PEER  
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OVER NINE SUCCESSFUL EDITIONS CAMPBELL BIOLOGY HAS BEEN RECOGNISED AS THE WORLD'S LEADING INTRODUCTORY BIOLOGY TEXTBOOK THE AUSTRALIAN EDITION OF CAMPBELL BIOLOGY CONTINUES TO ENGAGE STUDENTS WITH ITS DYNAMIC COVERAGE OF THE ESSENTIAL ELEMENTS OF THIS CRITICAL DISCIPLINE IT IS THE ONLY BIOLOGY TEXT AND MEDIA PRODUCT THAT HELPS STUDENTS TO MAKE CONNECTIONS ACROSS DIFFERENT CORE TOPICS IN BIOLOGY BETWEEN TEXT AND VISUALS BETWEEN GLOBAL AND AUSTRALIAN NEW ZEALAND BIOLOGY AND FROM SCIENTIFIC STUDY TO THE REAL WORLD THE TENTH EDITION OF AUSTRALIAN CAMPBELL BIOLOGY HELPS LAUNCH STUDENTS TO SUCCESS IN BIOLOGY THROUGH ITS CLEAR AND ENGAGING NARRATIVE SUPERIOR PEDAGOGY AND INNOVATIVE USE OF ART AND PHOTOS TO PROMOTE STUDENT LEARNING IT CONTINUES TO ENGAGE STUDENTS WITH ITS DYNAMIC COVERAGE OF THE ESSENTIAL ELEMENTS OF THIS CRITICAL DISCIPLINE THIS TENTH EDITION WITH AN INCREASED FOCUS ON EVOLUTION ENSURES STUDENTS RECEIVE THE MOST UP TO DATE ACCURATE AND RELEVANT INFORMATION

THE STUDY OF PARASITOID COMMUNITIES HAS DIRECT RELEVANCE TO GENERAL ECOLOGICAL THEORY AND TO THE APPLIED PRACTICE OF BIOLOGICAL CONTROL YET DESPITE THE EXISTENCE OF A LARGE AND ACTIVE INTERNATIONAL RESEARCH COMMUNITY INVOLVED IN THE STUDY OF PARASITIDS UNTIL NOW NO BOOKS DEVOTED TO THE THEME OF PARASITOID COMMUNITY ECOLOGY HAVE BEEN AVAILABLE HERE WITH A HEALTHY MIX OF GENERAL DISCUSSIONS AND SPECIFIC EXAMPLES SUCH AS TORTRICIDS AND WEEVILS THE AUTHORS CONSTRUCTIVELY REVIEW AND EVALUATE OUR UNDERSTANDING OF THESE OFTEN VERY COMPLEX SYSTEMS THE BOOK EMPHASIZES BASIC SCIENCE LINKING THE DISCUSSION TO WIDER AREAS SUCH AS POPULATION DYNAMICS FOOD WEBS COMPETITION AND COMMUNITY STRUCTURE THE MORE APPLIED END OF THE SUBJECT IS COVERED IN A SECTION EXCLUSIVELY DEVOTED TO BIOLOGICAL CONTROL THIS BOOK THE FIRST TO DEAL ENTIRELY WITH ECOLOGICAL ASPECTS OF PARASITOID BIOLOGY OFFERS SUMMARIES OF THE STATE OF THE FIELD BY LEADING RESEARCHERS AND IDENTIFIES CRITICAL AREAS IN NEED OF FURTHER INVESTIGATION STUDENTS RESEARCHERS AND TEACHERS IN THE FIELD OF ECOLOGY ANIMAL BEHAVIOR ENTOMOLOGY FORESTRY AND AGRICULTURE WILL ALL WANT TO HAVE A COPY OF THE BOOK ON THEIR SHELVES

#### A PLURALISTIC APPROACH TO COMMUNITY ECOLOGY

THIS BOOK PRESENTS THE PROCEEDINGS OF A WORKSHOP ON COMMUNITY ECOLOGY ORGANIZED AT DAVIS IN APRIL 1986 SPONSORED BY THE SLOAN FOUNDATION THERE HAVE BEEN SEVERAL RECENT SYMPOSIA ON COMMUNITY ECOLOGY STRONG ET AL 1984 DIAMOND AND CASE 1987 WHICH HAVE COVERED A WIDE RANGE OF TOPICS THE GOAL OF THE WORKSHOP AT DAVIS WAS MORE NARROW TO EXPLORE THE ROLE OF SCALE IN DEVELOPING A THEORETICAL APPROACH TO UNDERSTANDING COMMUNITIES THERE ARE A NUMBER OF ASPECTS OF SCALE THAT ENTER INTO ATTEMPTS TO UNDERSTAND ECOLOGICAL COMMUNITIES ONE OF THE MOST BASIC IS ORGANIZATIONAL SCALE SHOULD COMMUNITY ECOLOGY PROCEED BY BUILDING UP FROM POPULATION BIOLOGY THIS QUESTION AND ITS RAMIFICATIONS ARE STRESSED THROUGHOUT THE BOOK AND EXPLORED IN THE FIRST CHAPTER BY SIMON LEVIN NOTIONS OF SCALE HAVE LONG BEEN IMPORTANT IN UNDERSTANDING PHYSICAL SYSTEMS THUS IN UNDERSTANDING THE INTERACTIONS OF ORGANISMS WITH THEIR PHYSICAL ENVIRONMENT QUESTIONS OF SCALE BECOME PARAMOUNT THESE MORE PHYSICAL QUESTIONS ILLUSTRATE THE ROLE SCALE PLAYS IN UNDERSTANDING ECOLOGY AND ARE DISCUSSED IN CHAPTER TWO BY AKIRA OKUBO

MANY ISSUES HAVE SUPPLEMENT RECENT LITERATURE OF MAMMALOGY

THIS TEXT USES AN EVOLUTIONARY APPROACH AND FOCUSES ON ECOSYSTEMS COMMUNITIES POPULATIONS AND ORGANISMS IT ALSO INTEGRATES SOME ENVIRONMENTAL PROBLEMS TO EMPHASIZE THE RELEVANCY OF THE FIELD IT CONTAINS BALANCED COVERAGE OF ALL TOPICS

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PEOPLE HAVE LOOK NUMEROUS TIMES FOR THEIR

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