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this monograph presents a general mathematical theory for biological growth it provides both a conceptual and a technical foundation for the understanding and analysis of problems arising in biology and physiology the theory and methods are illustrated on a wide range of examples and applications a process of extreme complexity growth plays a fundamental role in many biological processes and is considered to be the hallmark of life itself its description has been one of the fundamental problems of life sciences but until recently it has not attracted much attention from mathematicians physicists and engineers the author herein presents the first major technical monograph on the problem of growth since darcy wentworth thompson s 1917 book on growth and form the emphasis of the book is on the proper mathematical formulation of growth kinematics and mechanics accordingly the discussion proceeds in order of complexity and the book is divided into five parts first a general introduction on the problem of growth from a historical perspective is given then basic concepts are introduced within the context of growth in filamentary structures these ideas are then generalized to surfaces and membranes and eventually to the general case of volumetric growth the book concludes with a discussion of open problems and outstanding challenges thoughtfully written and richly illustrated to be

accessible to readers of varying interests and background the text will appeal to life scientists biophysicists biomedical engineers and applied mathematicians alike

for core introductory statics and mechanics of materials courses found in mechanical civil aeronautical or engineering mechanics departments this text presents the foundations and applications of statics and mechanics of materials by emphasizing the importance of visual analysis of topics especially through the use of free body diagrams it also promotes a problem solving approach to solving examples through its strategy solution and discussion format in examples the authors further include design and computational examples that help instructors integrate these abet 2000 requirements

this text reference provides a foundation of the mechanics of continual and examining some select applications that illustrate the principles

this compilation of selected papers has as its principal objective the discussion of state of the art technologies and recent developments in the macro meso micro and nano mechanics of materials and structures

this book presents a liber amicorum dedicated to wolfgang h müller and highlights recent advances in prof müller s major fields of research continuum mechanics generalized mechanics thermodynamics mechanochemistry and geomechanics over 50 of prof müller s friends and colleagues contributed to this book which commemorates his 60th birthday and was published in recognition of his outstanding contributions

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