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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

biomechanics applies the principles and rigor of engineering to the mechanical properties of living systems this book integrates the classic fields of mechanics statics dynamics and strength of materials using examples from biology and medicine fundamentals of biomechanics is excellent for teaching either undergraduates in biomedical engineering programs or health care professionals studying biomechanics at the graduate level extensively revised from a successful first edition the book features a wealth of clear illustrations numerous worked examples and many problem sets the book provides the quantitative perspective missing from more descriptive texts without requiring an advanced background in mathematics it will be welcomed for use in courses such as biomechanics and orthopedics rehabilitation and industrial engineering and occupational or sports medicine

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

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