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annette barchanski deals with the question how to design nanoparticles for biomedical research she considers properties such as size charge biocompatibility and functionalization of nanoparticles from a biologist's point of view in order to achieve specific cellular responses the author discusses the structure function relationship of nanoparticle conjugates derived from a laser based fabrication method both the limits and perspectives of tunable conjugate functions are presented providing a general outline for researchers to configure functionalized nanoparticles with a specifically optimized design for biomedical requests e.g. in biomedical engineering regenerative science and reproductive biology

the handbook of membrane separations chemical pharmaceutical and biotechnological applications provides detailed information on membrane separation technologies as they have evolved over the past decades to provide a basic understanding of membrane technology this book documents the developments dealing with these technologies it explo

this comprehensive text on principles and practice of mechanical design discusses the concepts procedures data tools and analytical methodologies needed to perform design calculations for the most frequently encountered mechanical elements such as shafts gears belt rope and chain drives bearings springs joints couplings brakes and clutches flywheels as well as design calculations of various ic engine parts the book focuses on all aspects of design of machine elements including material selection and life or performance estimation under static fatigue impact and creep loading conditions the book also introduces various engineering analysis tools such as matlab autocad and finite element methods with a view to optimizing the design it also explains the fracture mechanics based design concept with many practical examples pedagogically strong the book features an abundance of worked out examples case studies chapter end summaries review questions as well as multiple choice questions which are all well designed to sharpen the learning and design skills of the students this textbook is designed to appropriately serve the needs of undergraduate and postgraduate students of mechanical engineering agricultural engineering and production and industrial engineering for a complete course in machine design papers i and ii fully conforming to the prescribed syllabi of all universities and institutes

building on the success of five previous editions this new sixth edition continues to present a unified approach to the study of the behavior of structural members and the development of design and failure criteria the text treats each type of

structural member in sufficient detail so that the resulting solutions are directly applicable to real world problems new examples for various types of member and a large number of new problems are included to facilitate the transition from elementary mechanics of materials to advanced topics a review of the elements of mechanics of materials is presented along with appropriate examples and problems

a rewritten and re organised edition of the physiological ecology of seaweeds 1985 seaweed ecology and physiology surveys the broad literature but it is not merely an update of the earlier book this book contains an introductory chapter reviewing seaweed morphology cytology and life histories the chapter on community level ecology now includes six guest essays by senior algal ecologists which conveys the excitement of phycological research the treatment of tropical seaweeds had been expanded reflecting the growing literature from tropical regions and the authors experiences in the tropics the final chapter on mariculture is much larger and includes a case study on how principles of physiological ecology were applied in developing the carrageenan industry finally there is an appendix summarising the taxonomic position and nomenclature of the species mentioned in the book

peterson s stress concentration factors establishes and maintains a system of data classification for all of the applications of stress and strain analysis and expedites their synthesis into cad applications substantially revised and completely updated this book presents stress concentration factors both graphically and with formulas it also employs computer generated art in its portrayal of the various relationships between the stress factors affecting machines or structures these charts provide a visual representation of the machine or structure under consideration as well as graphs of the various stress concentration factors at work they can be easily accessed via an illustrated table of contents that permits identification based on the geometry and loading of the location of a factor for the new third edition new material will be added covering finite element analyses of stress concentrations as well as effective computational design the book explains how to optimize shape to circumvent stress concentration problems and how to achieve a well balanced design of structures and machines that will result in reduced costs lighter products and improved performance

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