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Titolo	Professional ethics in construction and engineering // Jason Challender
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley-Blackwell, , [2022] ©2022
ISBN	1-119-83211-X 1-119-82882-1
Descrizione fisica	1 online resource (321 pages)
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Soggetti	Construction industry - Moral and ethical aspects Construction industry - Employees - Professional ethics Building - Moral and ethical aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Sommario/riassunto	"The above powerful and unequivocal quotation from the former President of the USA reinforces the importance of ethics in the society and world we live in. It is perhaps the same quotation which has provided the focus for this book in an attempt to encourage construction practitioners to take a more proactive ethical stance in project management, change current working practices in the construction industry and improve project outcomes. Accordingly, the main focus of the book is to explore the role of ethics in construction management. In this regard, the overarching aim of the book is to create a factual client 'how to do it' guide or 'toolkit' for procuring more successful project outcomes. It is intended that this practical guide for construction practitioners can develop into a common due diligence framework on how to initiate, procure and manage construction projects and developments with ethical considerations at their heart. From this perspective, it will raise awareness of best practice and instil improvements in construction management with ethical compliance at the epicentre of project teams. It will seek to address the significant institutional risk that lies in the lack of a clear and consistent approach to ethics in projects and guidelines which are seldom universal and

therein open to different interpretations. Such an approach will constitute a viable tool in ensuring effective, appropriate and successful interfaces of ethical standards and principles, via codes of conduct, in pursuit of improvements to construction management practices. Furthermore, it is also intended to provide an important insight into the influence of professional ethics in the success of construction projects and redevelopment programmes."--

2. Record Nr.	UNINA9910808229203321
Titolo	Colloid science : principles, methods and applications // edited by Terence Cosgrove
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Edizione	[2nd ed.]
Descrizione fisica	1 online resource (399 p.)
Altri autori (Persone)	CosgroveT (Terence)
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Colloid Science Principles, methods and applications; Contents; Preface; Introduction; Acknowledgements; List of Contributors; 1 An Introduction to Colloids; 1.1 Introduction; 1.2 Basic Definitions; 1.2.1 Concentration; 1.2.2 Interfacial Area; 1.2.3 Effective Concentrations; 1.2.4 Average Separation; 1.3 Stability; 1.3.1 Quiescent Systems; 1.3.2 Sedimentation or Creaming; 1.3.3 Shearing Flows; 1.3.4 Other Forms of Instability; 1.4 Colloid Frontiers; References; 2 Charge in Colloidal Systems; 2.1 Introduction; 2.2 The Origin of Surface Charge; 2.2.1 Ionisation of Surface Groups; 2.2.2 Ion Adsorption; 2.2.3 Dissolution of Ionic Solids; 2.2.4 Isomorphous Substitution; 2.2.5 Potential Determining Ions; 2.3 The Electrochemical Double Layer; 2.3.1 The Stern-Gouy-Chapman (SGC) Model of the Double Layer; 2.3.2 The Double Layer at the Hg/Electrolyte Interface; 2.3.3 Specific Adsorption; 2.3.4 Interparticle Forces; 2.4 Electrokinetic Properties; 2.4.1 Electrolyte Flow; 2.4.2 Streaming Potential Measurements; 2.4.3 Electro-osmosis; 2.4.4 Electrophoresis; 2.4.5 Electroacoustic Technique; References; 3 Stability of Charge-stabilised Colloids; 3.1 Introduction; 3.2 The Colloidal Pair Potential; 3.2.1 Attractive Forces; 3.2.2 Electrostatic Repulsion; 3.2.3 Effect of Particle Concentration; 3.2.4 Total Potential; 3.3 Criteria for Stability; 3.3.1 Salt Concentration; 3.3.2 Counter-ion Valency; 3.3.3 Zeta Potential; 3.3.4 Particle Size; 3.4 Kinetics of Coagulation; 3.4.1 Diffusion-limited Rapid Coagulation; 3.4.2 Interaction-limited Coagulation; 3.4.3 Experimental Determination of c.c.c.; 3.5 Conclusions; References; 4 Surfactant Aggregation and Adsorption at Interfaces; 4.1 Introduction; 4.2 Characteristic Features of Surfactants; 4.3 Classification and Applications of Surfactants; 4.3.1 Types of Surfactants; 4.3.2 Surfactant Uses and Development; 4.4 Adsorption of Surfactants at Interfaces; 4.4.1 Surface Tension and Surface Activity; 4.4.2 Surface Excess and Thermodynamics of Adsorption; 4.4.3 Efficiency and Effectiveness of Surfactant Adsorption; 4.5 Surfactant Solubility; 4.5.1 The Krafft Temperature; 4.5.2 The Cloud Point; 4.6 Micellisation; 4.6.1 Thermodynamics of Micellisation; 4.6.2 Factors Affecting the CMC; 4.6.3 Structure of Micelles and Molecular Packing; 4.7 Liquid Crystalline Mesophases; 4.7.1 Definition; 4.7.2 Structures; 4.7.3 Phase Diagrams; 4.8 Advanced Surfactants; References; 5 Microemulsions; 5.1 Introduction; 5.2 Microemulsions: Definition and History; 5.3 Theory of Formation and Stability; 5.3.1 Interfacial Tension in Microemulsions; 5.3.2 Kinetic Instability; 5.4 Physicochemical Properties; 5.4.1 Predicting Microemulsion Type; 5.4.2 Surfactant Film Properties; 5.4.3 Phase Behaviour; 5.5 Developments and Applications Temperature; 5.5.1 Microemulsions with Green and Novel Solvents; 5.5.2 Microemulsions as Reaction Media for Nanoparticles; References; 6 Emulsions; 6.1 Introduction; 6.1.1 Definitions of Emulsion Type

Colloidal systems are important across a range of industries, such as the food, pharmaceutical, agrochemical, cosmetics, polymer, paint and oil industries, and form the basis of a wide range of products (eg cosmetics & toiletries, processed foodstuffs and photographic film). A detailed understanding of their formation, control and application is required in those industries, yet many new graduate or postgraduate chemists or chemical engineers have little or no direct experience of colloids. Based on lectures given at the highly successful Bristol Colloid Centre Spring School, Colloid Scie