

1. Record Nr.	UNISALENTO991000982699707536
Autore	Todhunter, Isaac
Titolo	A history of the calculus of variations : during the nineteenth century / by I. Todhunter
Pubbl/distr/stampa	New York : Chelsea Publ. Co., [repr. 1861]
Descrizione fisica	xii, 530 p. ; 21 cm.
Classificazione	AMS 01A55 AMS 49-03 AMS 49-XX
Disciplina	510.9
Soggetti	Calculus of variations - History History of mathematics-19th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910799967903321
Autore	Swaffield J. A. <1943->
Titolo	Transient airflow in building drainage systems // John Swaffield
Pubbl/distr/stampa	Abingdon, Oxon ; ; New York : , : Spon Press, , 2010
ISBN	1-134-00696-9 1-134-00697-7 1-282-59559-8 9786612595592 0-203-87975-9
Descrizione fisica	1 online resource (359 p.)
Disciplina	696.1
Soggetti	Plumbing - Waste-pipes - Simulation methods Drainage - Simulation methods Ventilation - Simulation methods Air flow - Simulation methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	1. Building drainage and vent systems, a traditional building service requiring an engineering analysis makeover? -- 2. Pressure transient propagation in building drainage and vent systems -- 3. Mathematical basis for the simulation of low amplitude air pressure transients in vent systems -- 4. Simulation of the basic mechanisms of low amplitude air pressure transient propagation : AIRNET applications -- 5. Pressure surge as a source of system failure, leading to the development of control and suppression strategies -- 6. Application of the Method of characteristics based simulation to a series of case studies -- 7. Airflow applications of the Method of characteristics simulation techniques -- 8. The role of national codes in drainage and vent system design.
Sommario/riassunto	"Giving you the first comprehensive presentation of the ground breaking research undertaken at Heriot Watt University, with Research Council and industrial funding, this book brings a new perspective to the design of building drainage and vent systems. It provides the building services community with clear and verifiable design methods

that will be robust enough to meet challenges such as climate change and water conservation; population migration to the mega cities of the developing world, and the consequent pressures of user concentration; the rise of the prestige building and the introduction of new appliances and control strategies. These all combine to make traditional codified design guidance insufficient. Many assumptions in existing codes defining the entrained airflows within building drainage vent systems cannot be theoretically supported, so designers concerned with these systems need analysis and simulation capabilities which are at least as reliable as those enjoyed by other building services practitioners. The Method of Characteristics solution techniques which are well established in the pressure surge field are now used to provide solutions for drainage designers. The material is applied to a whole range of abstract scenarios then to a series of real world applications including the forensic modelling of the SARS virus spread within Amoy Gardens in 2003 and the refurbishment of the O2 Dome. Applications to specialised services, including underground station drainage and highly infectious disease treatment facilities are discussed and demonstrated, alongside the use of design and simulation techniques in support of product development. Aimed at both professional and academic users, this book serves both as a design aid and as a core text for specialist masters courses in public health and building services engineering"--Provided by publisher.
