

1. Record Nr.	UNICASVEA0033563
Autore	Varela, Francisco J.
Titolo	La via di mezzo della conoscenza : le scienze cognitive alla prova dell'esperienza / Francisco J. Varela, Evan Thompson, Eleanor Rosch
Pubbl/distr/stampa	Milano, : Feltrinelli, [1992]
Titolo uniforme	The Embodied Mind
ISBN	8807101599
Descrizione fisica	342 p. ; 23 cm
Collana	Campi del sapere
Altri autori (Persone)	Thompson, Evan Rosch, Eleanor
Disciplina	153.4
Soggetti	Conoscenza - Cognitivismo
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Trad. di Isabella Blum.

2. Record Nr.	UNINA9910863175103321
Autore	Baddoo Peter Jonathan
Titolo	Analytic Solutions for Flows Through Cascades // by Peter Jonathan Baddoo
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-55781-2
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (269 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5061
Disciplina	621.51
Soggetti	Mathematical physics Fluid mechanics Noise control Mathematical Methods in Physics Engineering Fluid Dynamics Noise Control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Potential Flow Through Cascades of Thin, Impermeable Aerofoils -- Scattering by Cascades of Aerofoils with Realistic Geometry -- Potential Flow Through Cascades of Thin, Porous Aerofoils -- Scattering by Cascades of Aerofoils with Complex Boundary Conditions -- Potential Flow Through Cascades with Multiple Aerofoils per Period -- The Quasi-Periodic Compact Green's Function -- Conclusion.
Sommario/riassunto	This thesis is concerned with flows through cascades, i.e. periodic arrays of obstacles. Such geometries are relevant to a range of physical scenarios, chiefly the aerodynamics and aeroacoustics of turbomachinery flows. Despite the fact that turbomachinery is of paramount importance to a number of industries, many of the underlying mechanisms in cascade flows remain opaque. In order to clarify the function of different physical parameters, the author considers six separate problems. For example, he explores the significance of realistic blade geometries in predicting turbomachinery performance, and the possibility that porous blades can achieve noise

reductions. In order to solve these challenging problems, the author deploys and indeed develops techniques from across the spectrum of complex analysis: the Wiener–Hopf method, Riemann–Hilbert problems, and the Schottky–Klein prime function all feature prominently. These sophisticated tools are then used to elucidate the underlying mathematical and physical structures present in cascade flows. The ensuing solutions greatly extend previous works and offer new avenues for future research. The results are not of simply academic value but are also useful for aircraft designers seeking to balance aeroacoustic and aerodynamic effects.
